SHARP SERVICE MANUAL

No. S2513XLMP110H

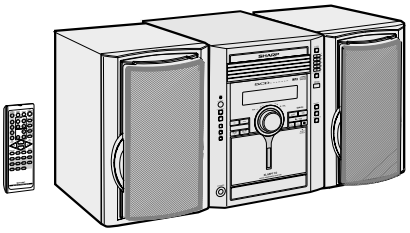

Illustration XL-MP110H

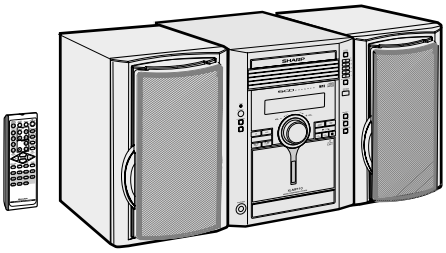

Illustration XL-MP110E

MICRO COMPONENT SYSTEM

MODEL XL-MP110H

XL-MP110H Micro Component System consisting of XL-MP110H (main unit) and CP-MP110H (speaker system).

MODEL XL-MP110E

XL-MP110E Micro Component System consisting of XL-MP110E (main unit) and CP-MP110E (speaker system).

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

COMPACT disc DIGITAL AUDIO

R·D·S (XL-MP110H Only)

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6W (XL-MP110H Only)

MP3 CD-R/RW Playable 5CD CHANGER

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Parts Guide

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

PRECAUTIONS FOR USING LEAD-FREE SOLDER

1. Employing lead-free solder

"MAIN,DISPLAY,TERMINAL,SWITCH,POWER,JACK,TUNER,CD MP3,CD MOTOR (PWB ONLY), CD CHANGER MOTOR (PWB ONLY) PWB" of this model employs lead-free solder.
The LF symbol indicates lead-free solder, and is attached on the PWB and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

Sn-Ag-Cu Indicates lead-free solder of tin, silver and copper.

2. Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.
As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40 °C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3. Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220 °C which is higher than the conventional lead solder by 40 °C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.
Lead-free solder contains more tin, and the end of the soldering bit may be easily corrected. Make sure to turn on and off the power of the bit as required.
If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.
When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Ref No.	Parts No.	Description
PWB-A	92LPWB6289MANS	MAIN (A1),DISPLAY (A2),TERMINAL (A3),SWITCH (A4) [XL-MP110H]
PWB-A	92LPWB6291MANS	MAIN (A1),DISPLAY (A2),TERMINAL (A3),SWITCH (A4) [XL-MP110E]
PWB-B	92LPWB6289PWRS	POWER (B1),JACK (B2) [XL-MP110H]
PWB-B	92LPWB6291PWRS	POWER (B1),JACK (B2) [XL-MP110E]
PWB-C	92LPWB6289TUNS	TUNER [XL-MP110H]
PWB-C	92LPWB6291TUNS	TUNER [XL-MP110E]
PWB-D	92LPWB6230CDUS	CD MP3
PWB-E	QPWBF0027AWZZ	CD MOTOR (PWB ONLY)
PWB-F	QPWBF1055AWZZ	CD CHANGER MOTOR (PWB ONLY)

CHAPTER 1. GENERAL DESCRIPTION

[1] SAFETY PRECAUTION FOR SERVICE MANUAL

Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class 1 Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the Laser beam.

1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
4) Under no circumstances look directly into the Pickup Lens at any time.
5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

[2] SPECIFICATIONS

XL-MP110H

■ General

Power source	AC 230 V, 50 Hz
Power consumption	Power on:100 W Power stand-by: 0.6 W(*)
Dimensions	Width: 185 mm (7-1/4") Height: 260 mm (10-1/4") Depth: 307 mm (12")
Weight	6.1 kg (13.4 lbs.)

(*)This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 9 to cancel the demonstration mode.

■ Amplifier

Output power	PMPO: 364 W (total) MPO: 182 W (91 W + 91 W) (DIN 45 324) RMS: 100 W (50 W + 50 W) (DIN 45 324) RMS: 68 W (38 W + 38 W) (DIN 45 500)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Subwoofer pre-out (audio signal): 200 mV/10 k ohms at 70 Hz
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms

■ CD player

Type	5-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz

■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	50 dB (recording/playback)
Wow and flutter	0.35 % (DIN 45 511)

■ Speaker

Type	2-way type speaker system 5 cm (2") tweeter 13 cm (5-1/8") woofer
Maximum input power	100 W
Rated input power	50 W
Impedance	6 ohms
Dimensions	Width: 185 mm (7-1/4") Height: 260 mm (10-1/4") Depth: 205 mm (8-1/16")
Weight	2.4 kg (5.3 lbs.)/each

XL-MP110E

■ General

Power source	AC 230 - 240 V, 50 Hz
Power consumption	100 W
Dimensions	Width: 185 mm (7-1/4") Height: 260 mm (10-1/4") Depth: 307 mm (12")
Weight	6.1 kg (13.4 lbs.)

■ Amplifier

Output power	MPO: 182 W (91 W + 91 W) (10 % T.H.D.) RMS: 100 W (50 W + 50 W) (10 % T.H.D.) RMS: 76 W (38 W + 38 W) (0.9 % T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Subwoofer pre-out (audio signal): 200 mV/10 k ohms at 70 Hz
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms

■ CD player

Type	5-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

Specifications for this model are subject to change without prior notice.

■ Tuner

Frequency range	FM: 87.50 - 108.00 MHz AM: 522 - 1,620 kHz

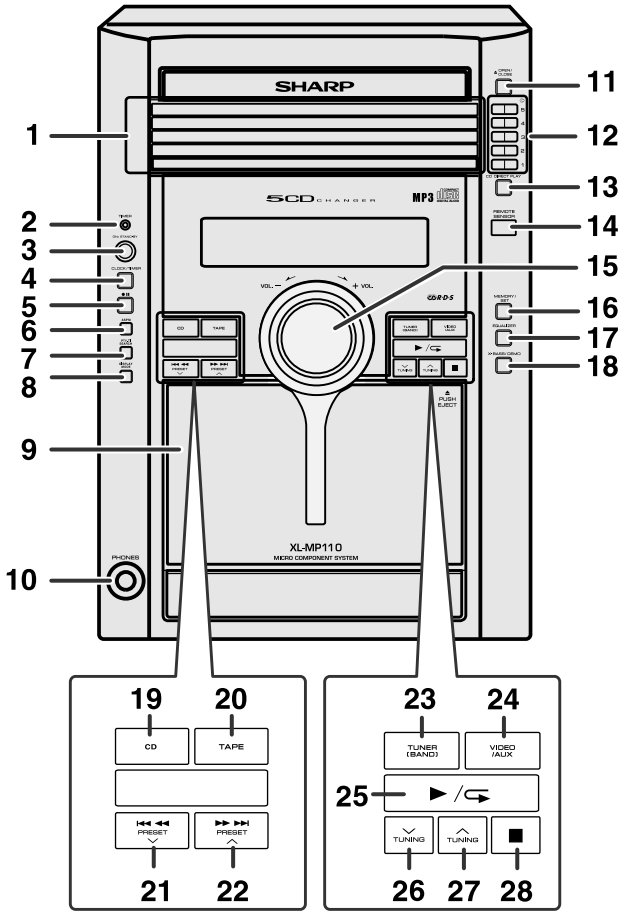
■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	50 dB (recording/playback)
Wow and flutter	0.3 % (WRMS)

■ Speaker

Type	2-way type speaker system 5 cm (2") tweeter 13 cm (5-1/8") woofer
Maximum input power	100 W
Rated input power	50 W
Impedance	6 ohms
Dimensions	Width: 185 mm (7-1/4") Height: 260 mm (10-1/4") Depth: 205 mm (8-1/16")
Weight	2.4 kg (5.3 lbs.)/each

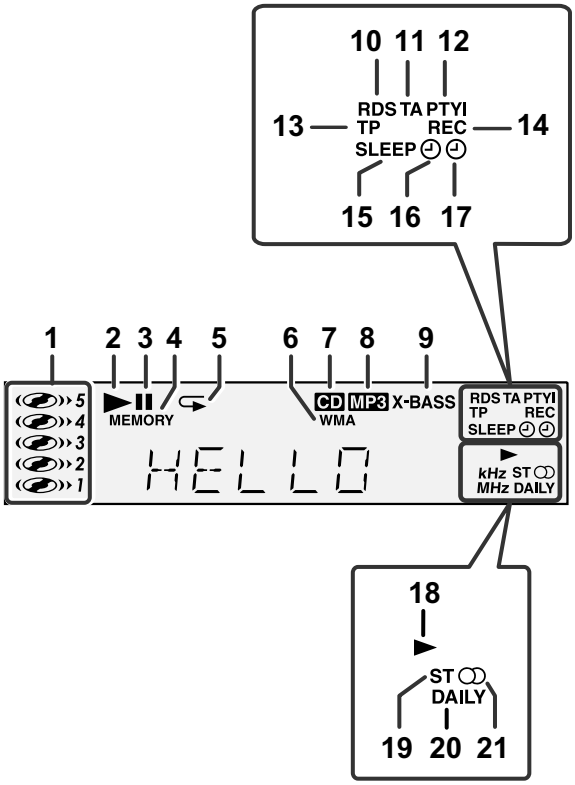
[3] NAMES OF PARTS



■ Front panel

1. Disc Trays
2. Timer Indicator
3. On/Stand-by Button
4. Clock/Timer Button
5. Tape Record Pause Button
6. RDS ASPM (Auto Station Programme Memory) Button
7. RDS Programme Type/ Traffic Information Search Button
8. RDS Display Mode Select Button
9. Cassette Compartment
10. Headphone Socket
11. Disc Tray Open/Close Button
12. Disc Number Select Buttons
13. Disc Direct Play Button
14. Remote Sensor
15. Volume Control
16. Memory/Set Button
17. Equalizer Mode Select Button
18. Extra Bass/Demo Mode Button
19. CD Button
20. Tape Button
21. Disc Track Down or Fast Reverse, Tape Rewind, Tuner Preset Down, Time Down Button
22. Disc Track Up or Fast Forward, Tape Fast Forward, Tuner Preset Up, Time Up Button
23. Tuner (Band) Button
24. Video/Auxiliary Button
25. Disc Play or Repeat, Tape Play Button
26. Tuning Down Button
27. Tuning Up Button
28. Disc or Tape Stop Button

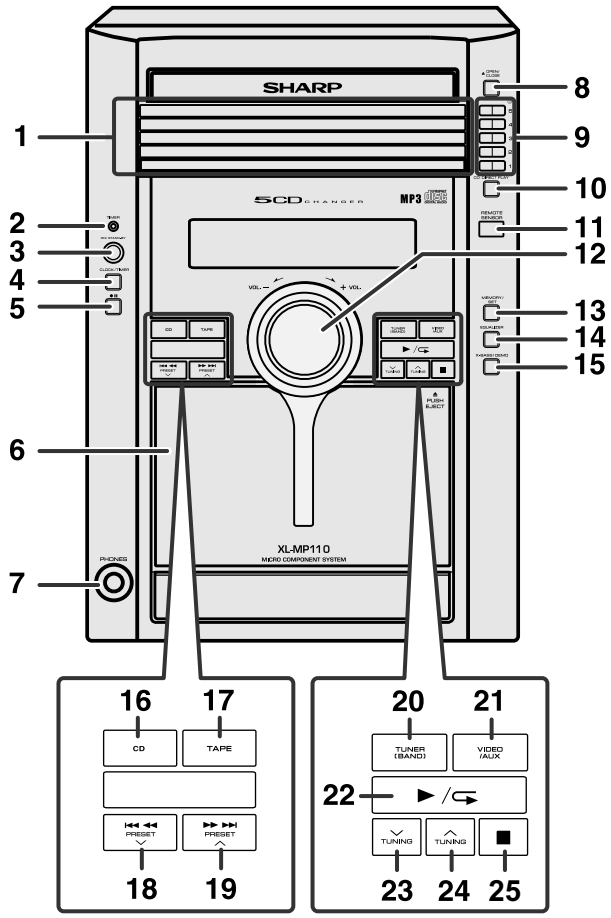
Illustration XL-MP110H



■ Display

1. Disc Number Indicators
2. Disc Play Indicator
3. Disc Pause Indicator
4. Memory Indicator
5. Disc Repeat Play Indicator
6. WMA Indicator
7. CD Indicator
8. MP3 Indicator
9. Extra Bass Indicator
10. RDS Indicator
11. Traffic Announcement Indicator
12. Dynamic PTY Indicator
13. Traffic Programme Indicator
14. Tape Record Indicator
15. Sleep Indicator
16. Timer Play Indicator
17. Timer Recording Indicator
18. Tape Play Indicator
19. FM Stereo Mode Indicator
20. Daily Timer Indicator
21. FM Stereo Receiving Indicator

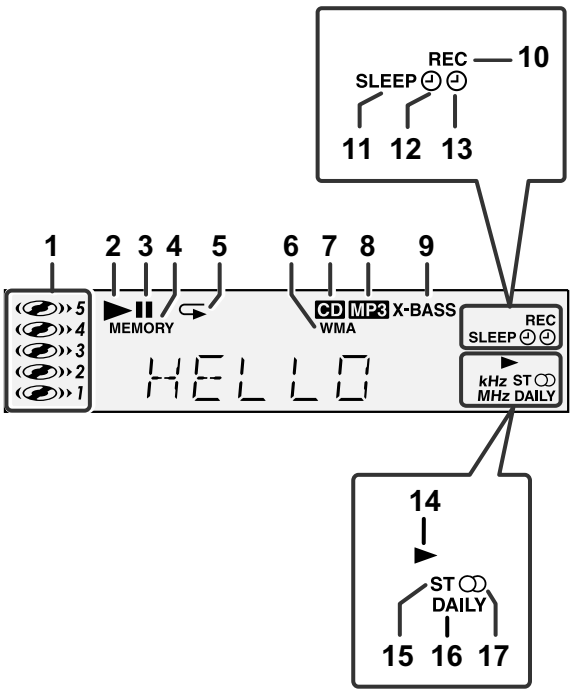
Illustration XL-MP110H



■ Front panel

1. Disc Trays
2. Timer Indicator
3. On/Stand-by Button
4. Clock/Timer Button
5. Tape Record Pause Button
6. Cassette Compartment
7. Headphone Socket
8. Disc Tray Open/Close Button
9. Disc Number Select Buttons
10. CD Direct Play Button
11. Remote Sensor
12. Volume Control
13. Memory/Set Button
14. Equalizer Mode Select Button
15. Extra Bass/Demo Mode Button
16. CD Button
17. Tape Button
18. Disc Track Down or Fast Reverse, Tape Rewind, Tuner Preset Down, Time Down Button
19. Disc Track Up or Fast Forward, Tape Fast Forward, Tuner Preset Up, Time Up Button
20. Tuner (Band) Button
21. Video/Auxiliary Button
22. Disc Play or Repeat, Tape Play Button
23. Tuning Down Button
24. Tuning Up Button
25. Disc or Tape Stop Button

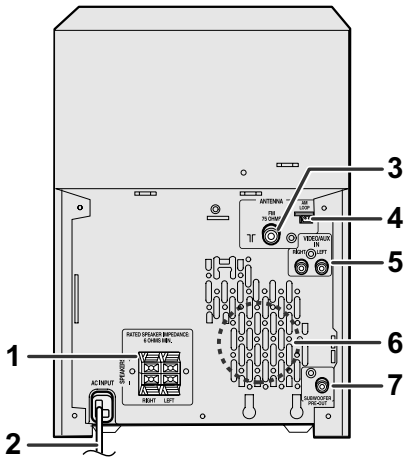
Illustration XL-MP110E



■ Display

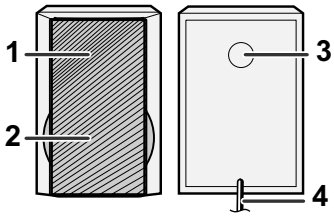
1. Disc Number Indicators
2. Disc Play Indicator
3. Disc Pause Indicator
4. Memory Indicator
5. Disc Repeat Play Indicator
6. WMA Indicator
7. CD Indicator
8. MP3 Indicator
9. Extra Bass Indicator
10. Tape Record Indicator
11. Sleep Indicator
12. Timer Play Indicator
13. Timer Recording Indicator
14. Tape Play Indicator
15. FM Stereo Mode Indicator
16. Daily Timer Indicator
17. FM Stereo Receiving Indicator

Illustration XL-MP110E



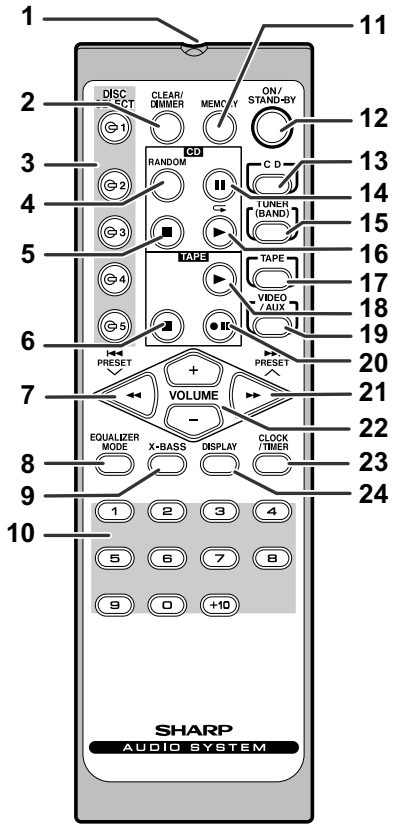
■ Rear panel

1. Speaker Terminals
2. AC Power Lead
3. FM 75 Ohms Aerial Socket
4. AM Loop Aerial Socket
5. Video/Auxiliary (Audio Signal) Input Sockets
6. Cooling Fan
7. Subwoofer Pre-output Socket



■ Speaker system

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire



■ Remote control

1. Remote Control Transmitter
2. Disc Clear/Dimmer Button
3. Disc Number Select Buttons
4. Disc Random Button
5. Disc Stop Button
6. Tape Stop Button
7. Disc Track Down or Fast Reverse, Tape Rewind, Tuner Preset Down, Time Down Button
8. Equalizer Mode Select Button
9. Extra Bass Button
10. Disc Direct Search Buttons
11. Memory Button
12. On/Stand-by Button
13. CD Button
14. Disc Pause Button
15. Tuner (Band) Button
16. Disc Play or Repeat Button
17. Tape Button
18. Tape Play Button
19. Video/Auxiliary Button
20. Tape Record Pause Button
21. Disc Track Up or Fast Forward, Tape Fast Forward, Tuner Preset Up, Time Up Button
22. Volume Up and Down Buttons
23. Clock/Timer Button
24. MP3/WMA Display Button

CHAPTER 2. ADJUSTMENTS

[1] ADJUSTMENT

1. MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Over 80 g

• Torque Check

Torque Meter	Specified Value
Play: TW-2111	30 to 80 g.cm
Fast forward: TW-2231	70 to 180 g.cm
Rewind: TW-2231	70 to 180 g.cm

2. TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,620 kHz	T351	*1
AM Band Coverage	—	522 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

*1. Input: Antenna Output: TP302
*2. Input: Antenna Output: TP301

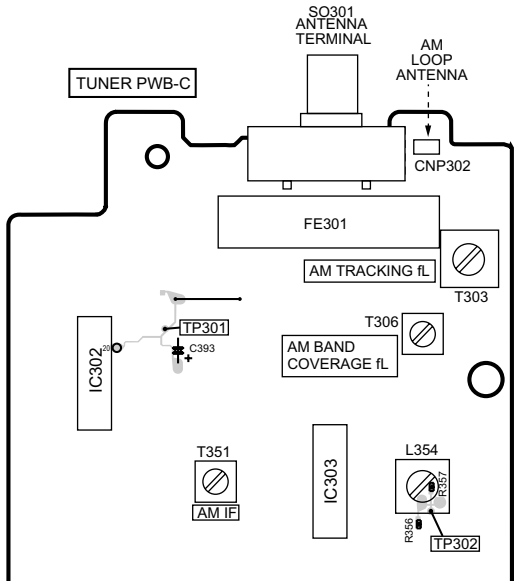


Figure 2 ADJUSTMENT POINTS

Notes:

1. Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
2. The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually.

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	3,000 ± 30 Hz	Speaker Terminal (Load resistance: 6 ohms)

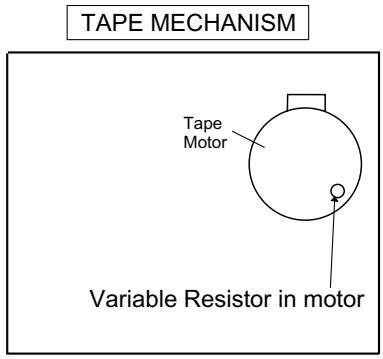


Figure 1

3. CD SECTION

• **Adjustment**

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.

Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

Items adjusted automatically

1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
   * Focus offset adjustment
   * Tracking offset adjustment
2) Tracking balance adjustment
3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0 dB.)
   * Focus gain adjustment
   * Tracking gain adjustment

4. CD ERROR CODE DESCRIPTION

Error	Explanation
01	When Pickup set inner position, inner switch cannot detect 'ON' level for 10 secs.
10*	CAM error. Can't detect CAM switch when CAM is moving.
11*	When it detect cam operation error during initialize process.
20*	TRAY error. Can't detect TRAY switch when TRAY is moving.
21*	When it detect TRAY operation error during initialize process.
31	When it change to CD function, DSP cannot read initial data.

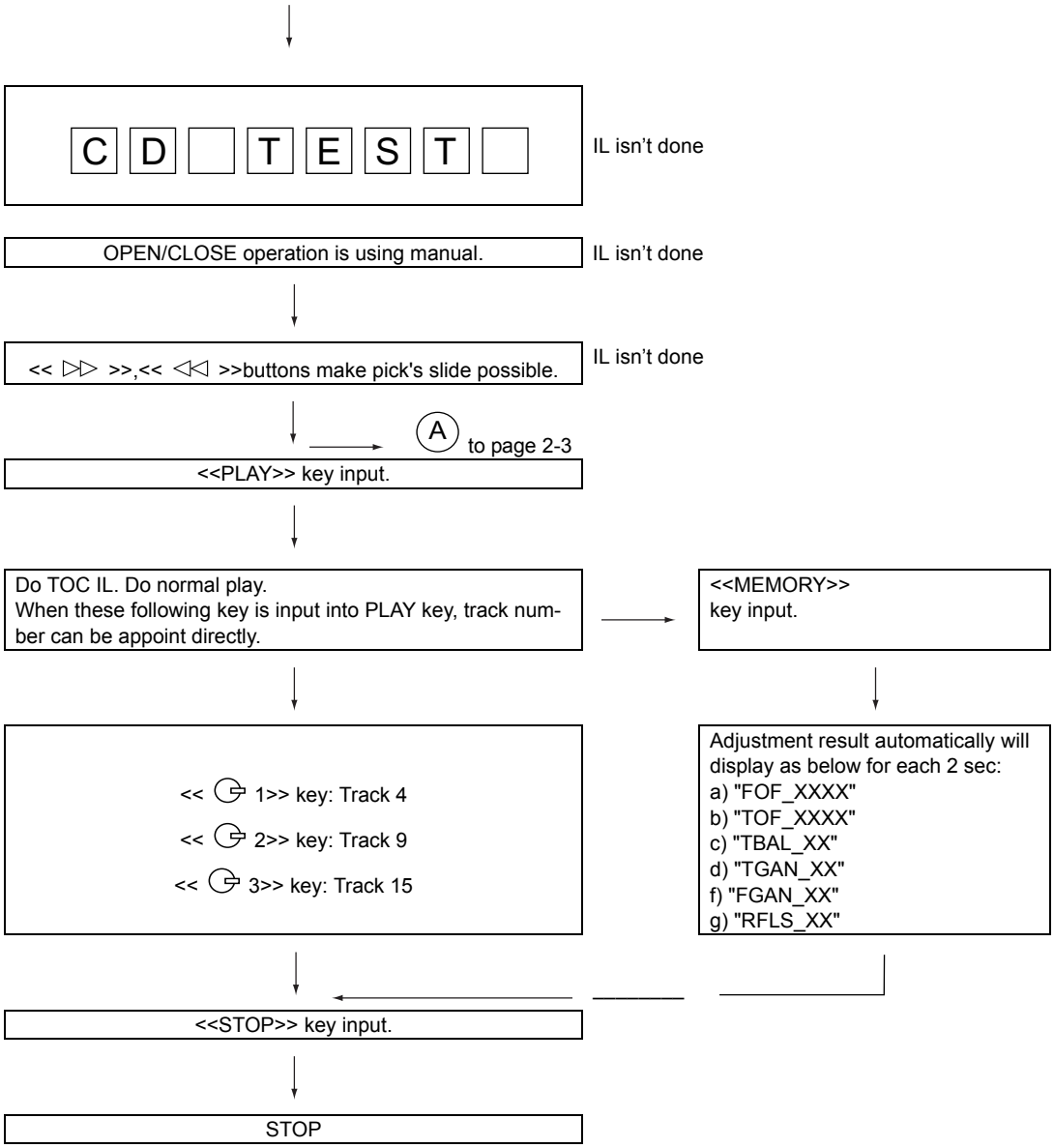
* 'CHECKING'

If Error is detected, 'CHECKING' will be displayed instead of 'ER-CD**'. 'ER-CD**' display will only be displayed when error had been detected for the 5th times.

[2] TEST MODE

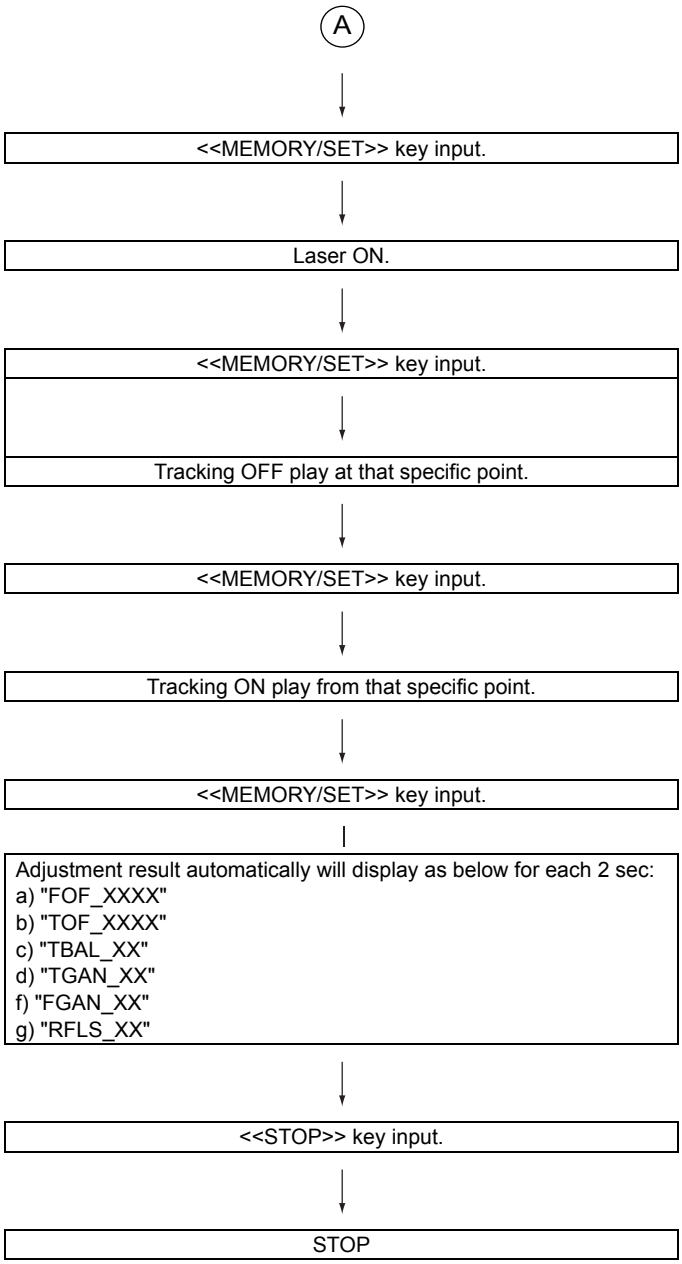
• Setting the test mode

During stand-by mode, press ON/STAND-BY button while pressing down the ■ button and X-BASS/DEMO button. then, press the CD button to enter the test mode.



explanation:

a) Focus off set = "FOF_XXXX"
b)Tracking off set = "TOF_XXXX"
c)Tracking balance = "TBAL_XX"
d)Tracking Gain = "TGAN_XX"
f) Focus Gain = "FGAN_XX"
g) RF level shift = "RFLS_XX"
VOL — Last memory
P.GEQ — FLAT
X-BASS — OFF
To cancel: Power OFF



Sliding the PICKUP with<< ▷▷ >>, << ◁◁ >> button must only be in STOP mode.

explanation:

a) Focus off set = "FOF_XXXX"
b)Tracking off set = "TOF_XXXX"
c)Tracking balance = "TBAL_XX"
d)Tracking Gain = "TGAN_XX"
f) Focus Gain = "FGAN_XX"
g) RF level shift = "RFLS_XX"

VOL — Last memory
P.GEQ — FLAT
X-BASS — OFF
To cancel: Power OFF

[3] Standard Specification of Stereo System Error Message Display Contents

Error Contents		DISPLAY	Notes
CD	Pickup Mechanism Error.	'ER-CD01'	PU-IN SW Detection NG.
	CD Changer Mechanism Error.	'ER-CD**' (*)	10: CAM SW Detection NG during normal operation 11: CAM SW Detection NG during initialize process 20:TRAY SW Detection NG during normal operation 21:TRAY SW Detection NG during initialize process
	CD DSP Communication Error.	'ER-CD31'	DSP COMMUNICATION ERROR.
	Focus Not Match/IL Time Over.	'NO DISC'	
TUNER	PLL Unlock.	FM 87.50 MHz	PLL Unlock.

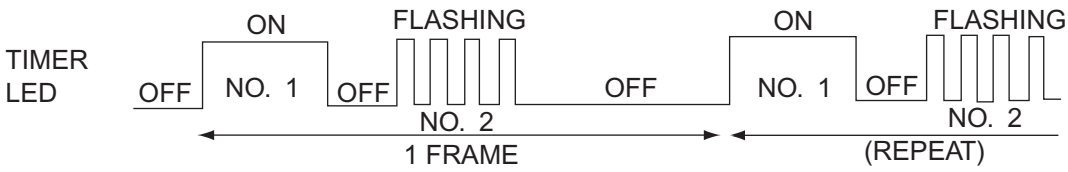
(*) CHECKING:

If CD changer mechanism error is detected, 'CHECKING' will be display instead of 'ER-CD**'. 'ER-CD**' display will only be display when error had been detected for the 5 th times.

Speaker abnormal detection and +B PROTECTION display

In case speaker abnormal detection or +B PROTECTION had occurred, the unit will automatically enter to stand-by mode and Timer indicator will flashing as below.

Example:In case of speaker abnormal



NO. 1 : +B PROTECTION
NO. 2 : Speaker abnormal

BEFORE TRANSPORTING THE UNIT

The following process need to be taken after set tapering/parts replacement.

1. Press the ON/STAND-BY button to enter stand-by mode.
2. While pressing down the ■ button and the X-BASS/DEMO button, press the ON/STAND-BY button. The Micro Computer version number will be displayed as "AM******".
3. Press OPEN/CLOSE button until "WAIT"--> "FINISHED" appears.
4. Unplug the AC cord and the unit is ready for transporting.

CHAPTER 3. MECHANICAL DESCRIPTION

[1] REMOVING AND REINSTALLING THE MAIN PARTS

1. TAPE MECHANISM SECTION

Perform steps 1 to 5, 11 of the disassembly method to remove the tape mechanism.(see page 3-3,3-4)

1.1. How to remove the Record/Playback Head (See Fig. 1)

1. When you remove the screws (A1) x 2 pcs., the record/playback head can be removed.

1.2. How to remove the Pinch Roller (See Fig. 2)

1. Carefully bend the pinch roller pawl in the direction of the arrow <**A**>, and remove the pinch roller (B1) x 1 pc., in the direction of the arrow <**B**>.

NOTE: When installing the pinch roller, pay attention to the spring mounting position.

1.3. How to remove the Belt (See Fig. 3)

1. Remove the main belt (C1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (C2) x 1 pc.

1.4. How to remove the Motor (See Fig. 4)

1. Remove the screws (D1) x 2 pcs., to remove the motor.

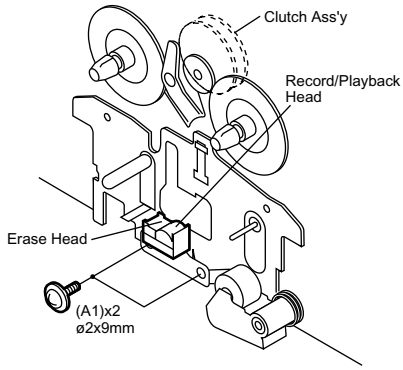


Figure 1

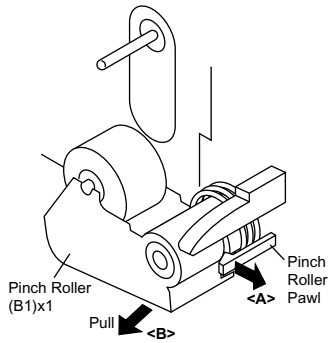


Figure 2

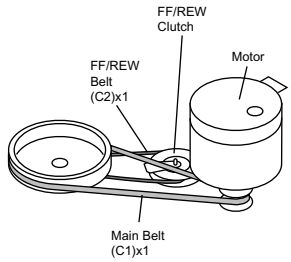


Figure 3

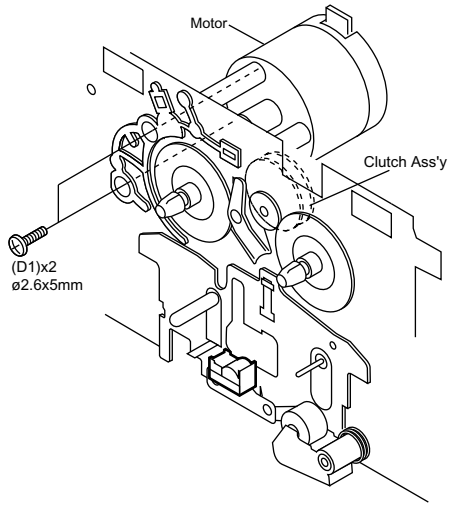


Figure 4

2. CD MECHANISM SECTION

Perform steps 1 to 3, 14 of the disassembly method to remove the CD mechanism.(see page 3-3,3-4)

2.1. How to remove the Optical Pickup (See Fig. 1)

1. Remove the screws (A1) x 2 pcs and shaft (A2) x 1 pc.
2. Remove the stop washer (A3) x 1 pc and gear (A4) x 1 pc.
3. Remove the optical pickup.

NOTE: After pulling out the optical pickup connector, wrap the tip of it with conductive aluminium foil or the like to protect the optical pickup from the static electricity.

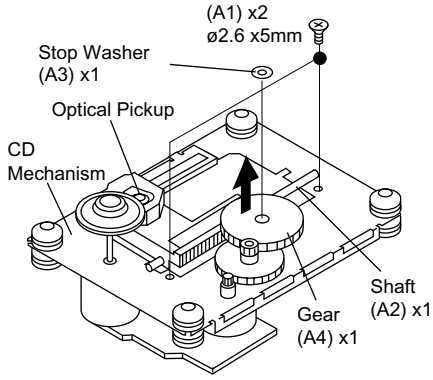


Figure 1

2.2. How to remove CD Disc (See Fig. 2~6)

1. When CD is at play position, rotate reduction gear C clock-wise as shown in Figure 2 until disk tray is at 'STOCK' position, then rotate the gear further to eject the disk tray (Figure 6) so that CD can be removed from the tray.
2. In another case, if CD mechanism is at tray No. 1 play position and to remove CD located in tray No. 3, the procedure is as follows:

   If the gear up down board is located at tray No. 1 position, then rotate Reduction gear C clock-wise until Disc tray is at 'STOCK' position. Rotate reduction gear D clock-wise (Figure 3) to move the CD mechanism to tray No. 3 position. This is confirmed by checking the gear up down board position base on the marking as indicated on the main chassis as shown in Figure 4.

- Usually changer is covered with top plate. As for reference purpose, we exclude the top plate for easy viewing. (Figure 5,6)

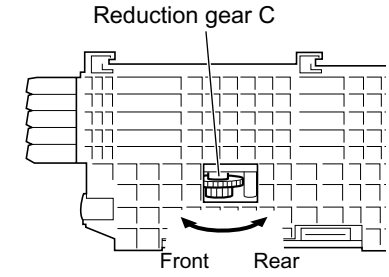


Figure 2

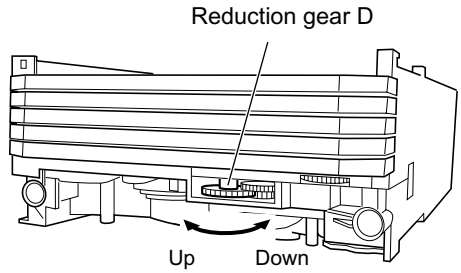


Figure 3

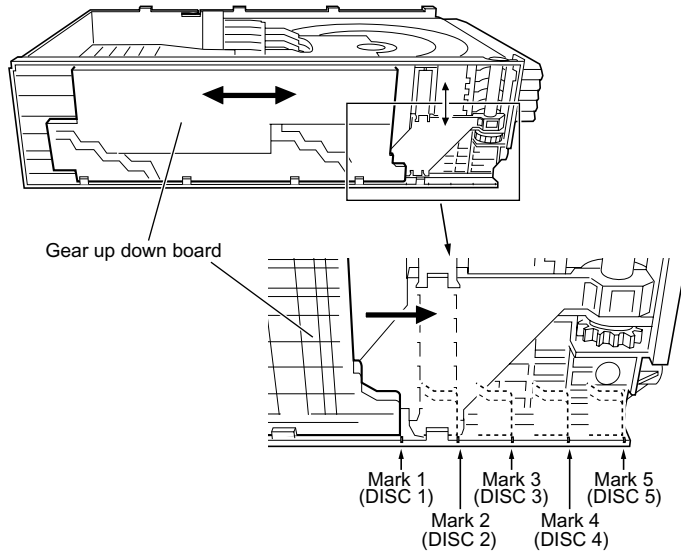


Figure 4

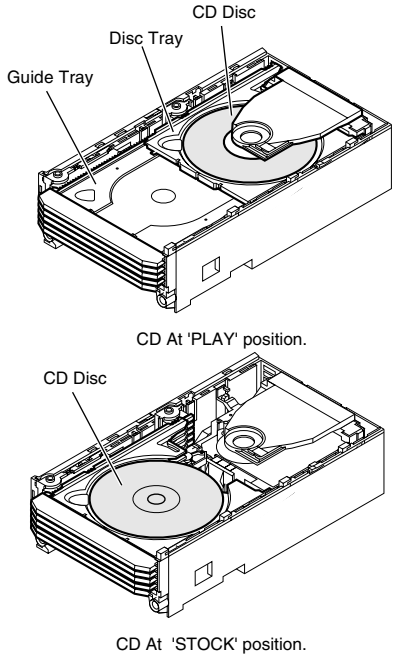


Figure 5

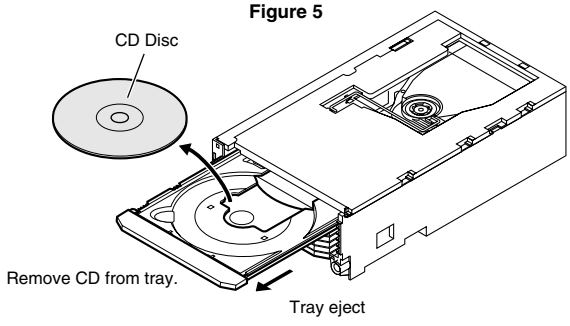


Figure 6

[2] DISASSEMBLY

Caution on Disassembly
Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:
1) Take cassette tape and compact disc out of the unit.
2) Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3) Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4) Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw.....(A1) x5	1
2	Side Panel (Left/ Right)	1. Screw.....(B1) x8	1
3	CD Changer unit	1. Screw.....(C1) x2 2. Hook.....(C2) x2 3. Socket.....(C3) x1 4. Flat Cable.....(C4) x1	2
4	Rear Panel	1. Screw.....(D1) x8	2
5	Front Panel	1. Screw.....(E1) x3 2. Flat Cable.....(E2) x2 3. Socket.....(E3) x1 4. Hook.....(E4) x2	2,3 3
6	Tuner PWB	1. Screw.....(F1) x1 2. Socket.....(F2) x1	2 3
7	Main PWB	1. Screw.....(G1) x2 2. Socket.....(G2) x4	2,4 4
8	Power PWB	1. Screw.....(H1) x4	4
9	Terminal PWB	1. Screw.....(J1) x1	4
10	Display PWB	1. Knob.....(K1) x1 2. Screw.....(K2) x 8 3. Flat Cable.....(K3) x 1	5
11	Tape Mechanism	1. Screw.....(L1) x 4	5
12	Jack PWB	1. Screw.....(M1) x 1	5
13	CD MP3 PWB (Note 1)	1. Screw.....(N1) x2 2. Flat Cable.....(N2) x 2 3. Socket.....(N3) x1	6
14	CD Mechanism	1. Screw.....(P1) x4 2. Screw.....(P2) x4	6 7

Note 1:

After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.

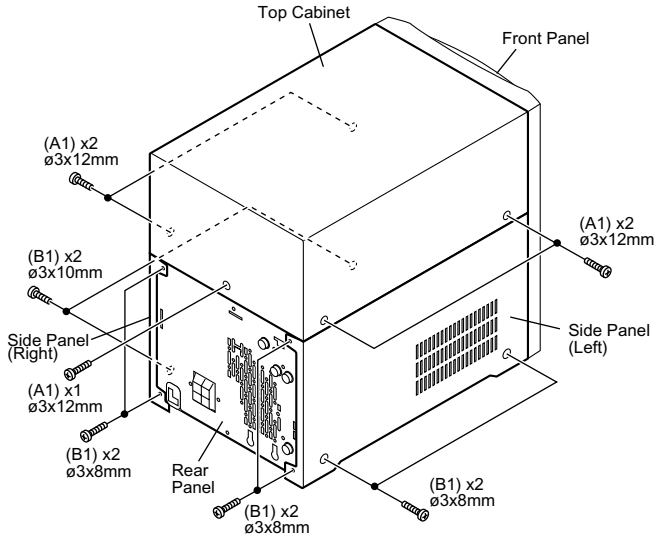


Figure 1

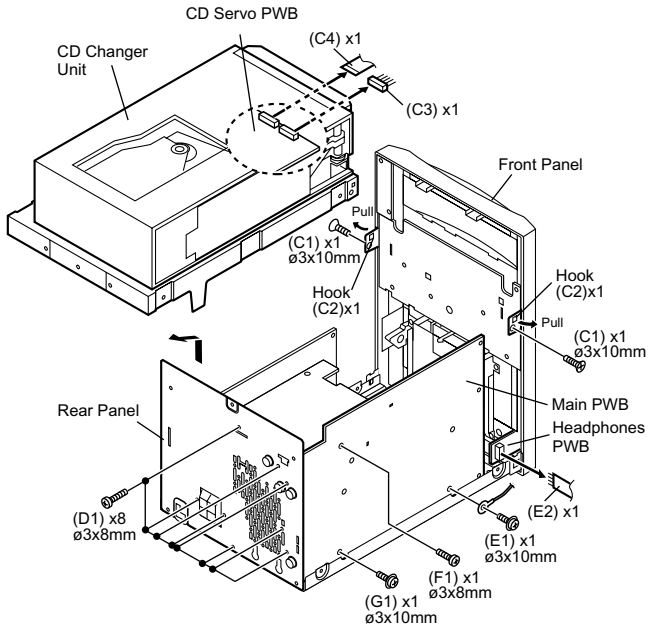


Figure 2

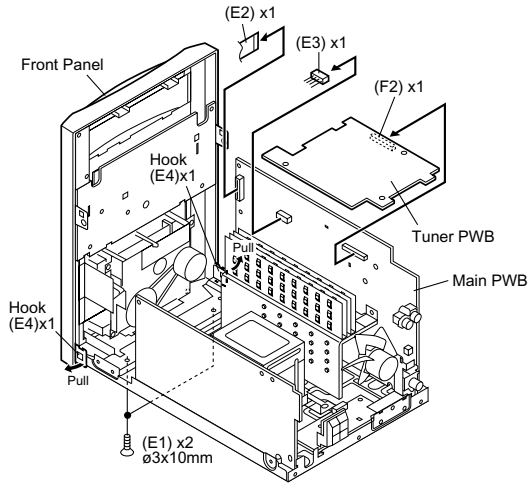


Figure 3

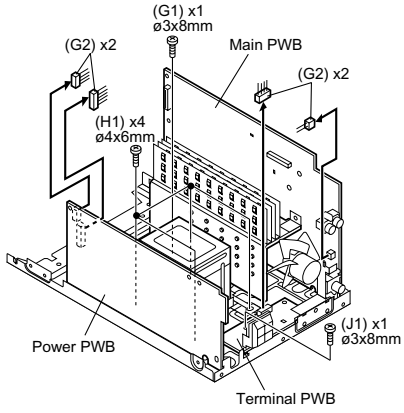


Figure 4

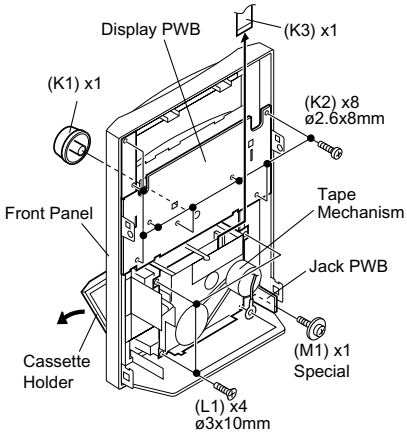


Figure 5

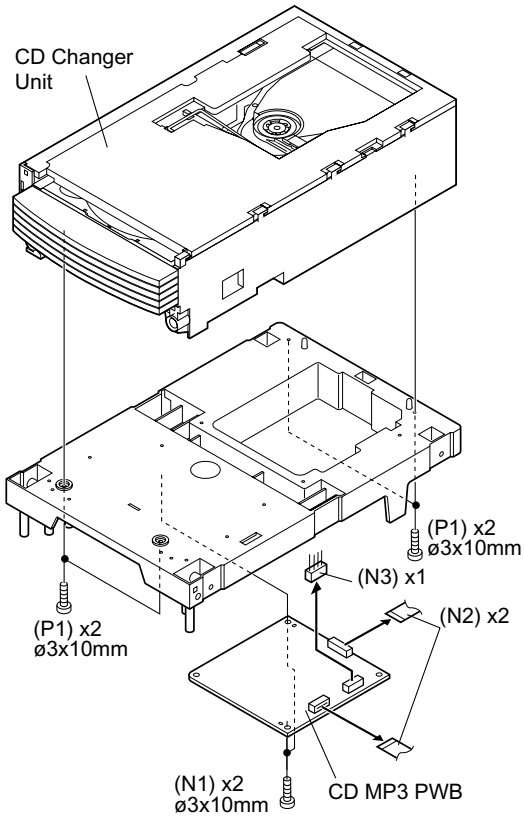


Figure 6

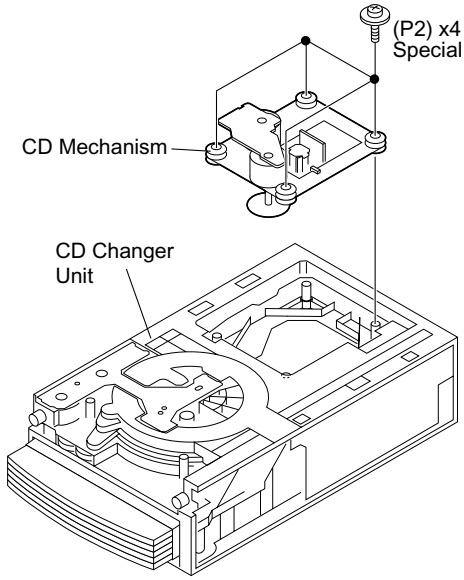


Figure 7

STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofer/ Tweeter	1. Net Frame.....(A1) x1 2. Front Panel.....(A2) x1 3. Screw.....(A3) x2 4. Screw.....(A4) x4	8

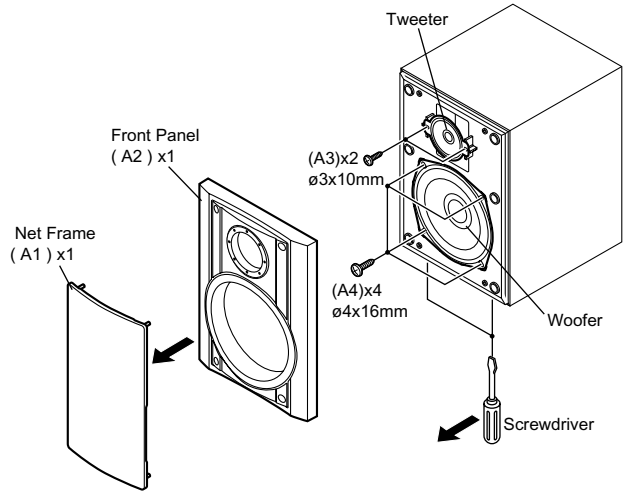


Figure 8

CHAPTER 4. DIAGRAMS

[1] BLOCK DIAGRAM

XL-MP110H

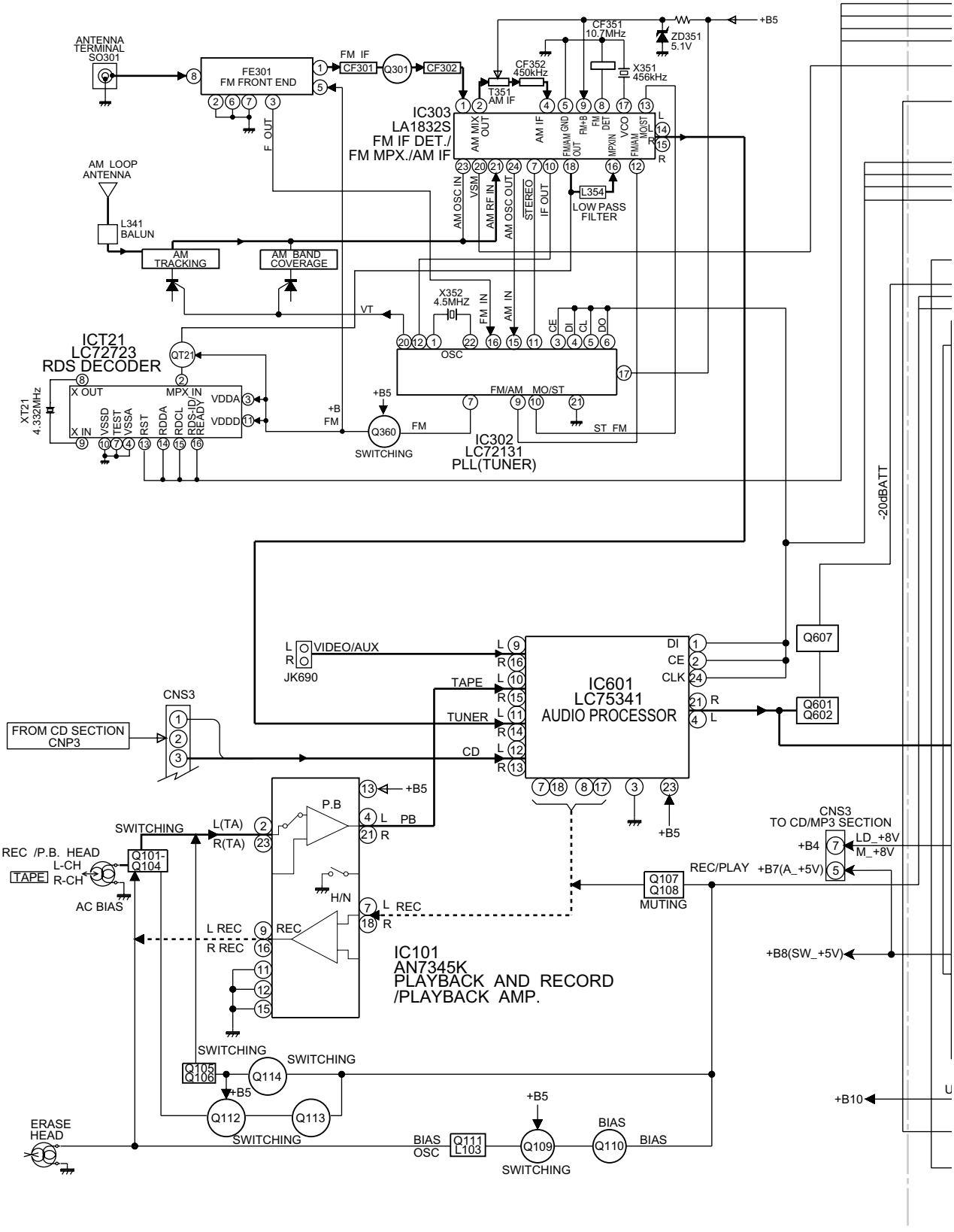


Figure 4-1 BLOCK DIAGRAM (1/8)

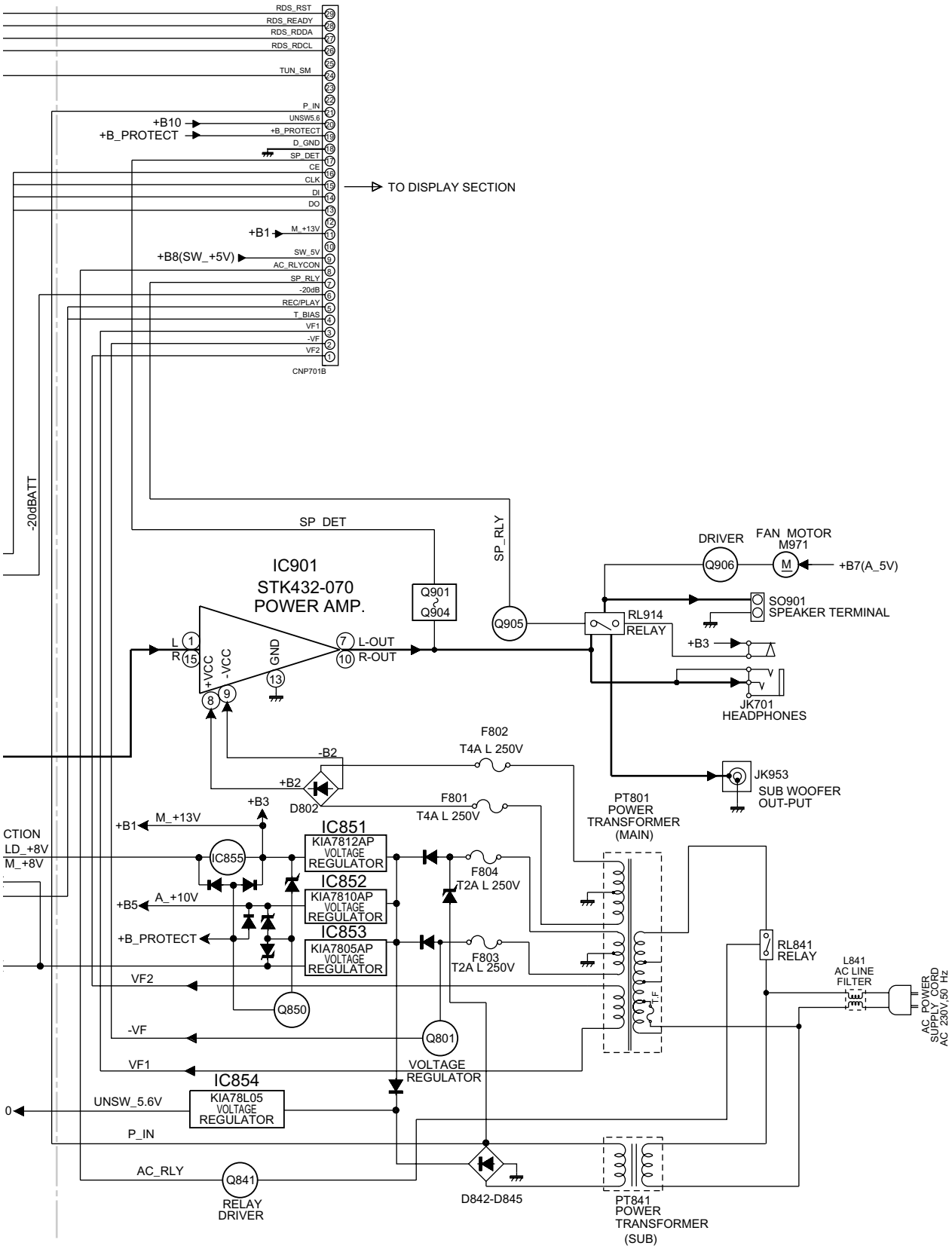


Figure 4-2 BLOCK DIAGRAM (2/8)

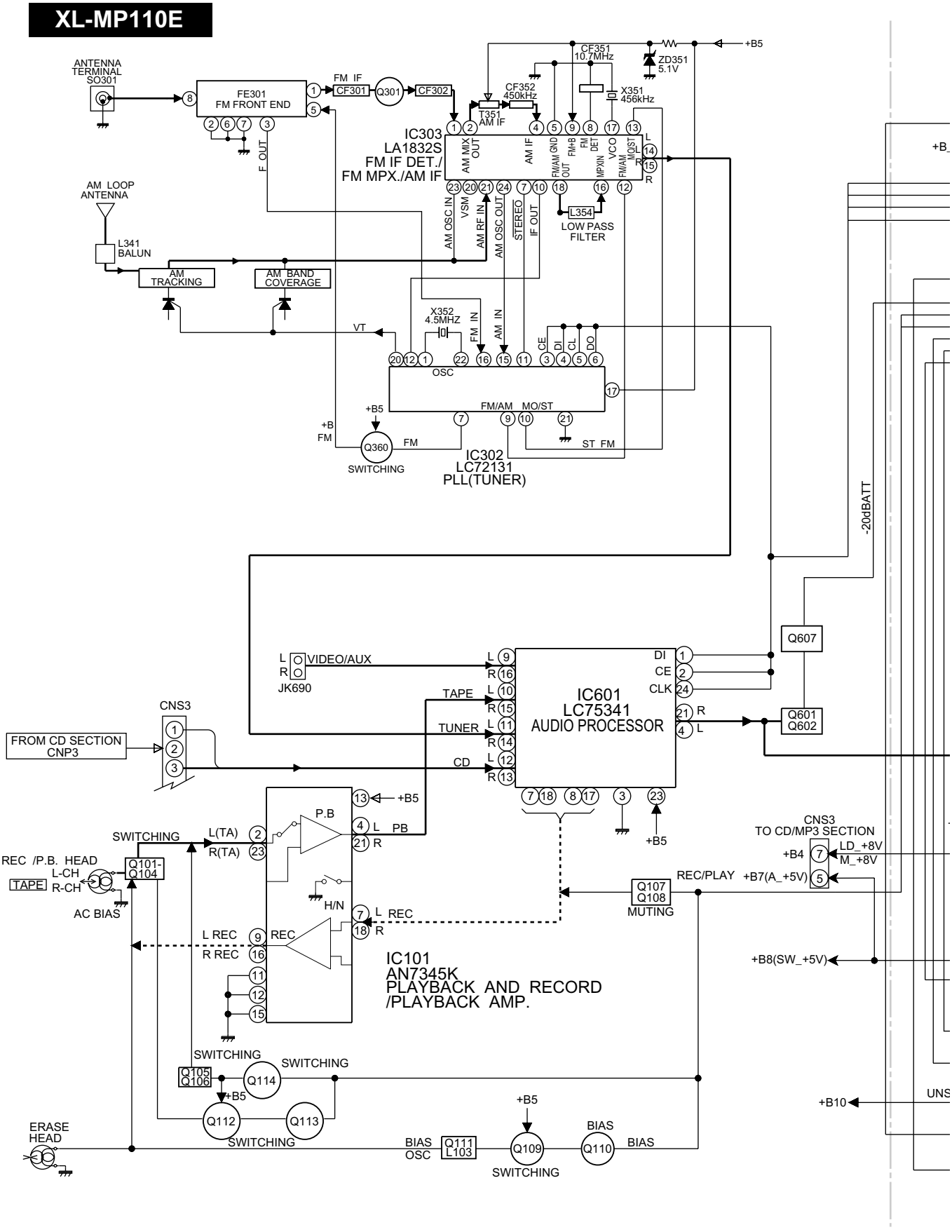


Figure 4-3 BLOCK DIAGRAM (3/8)

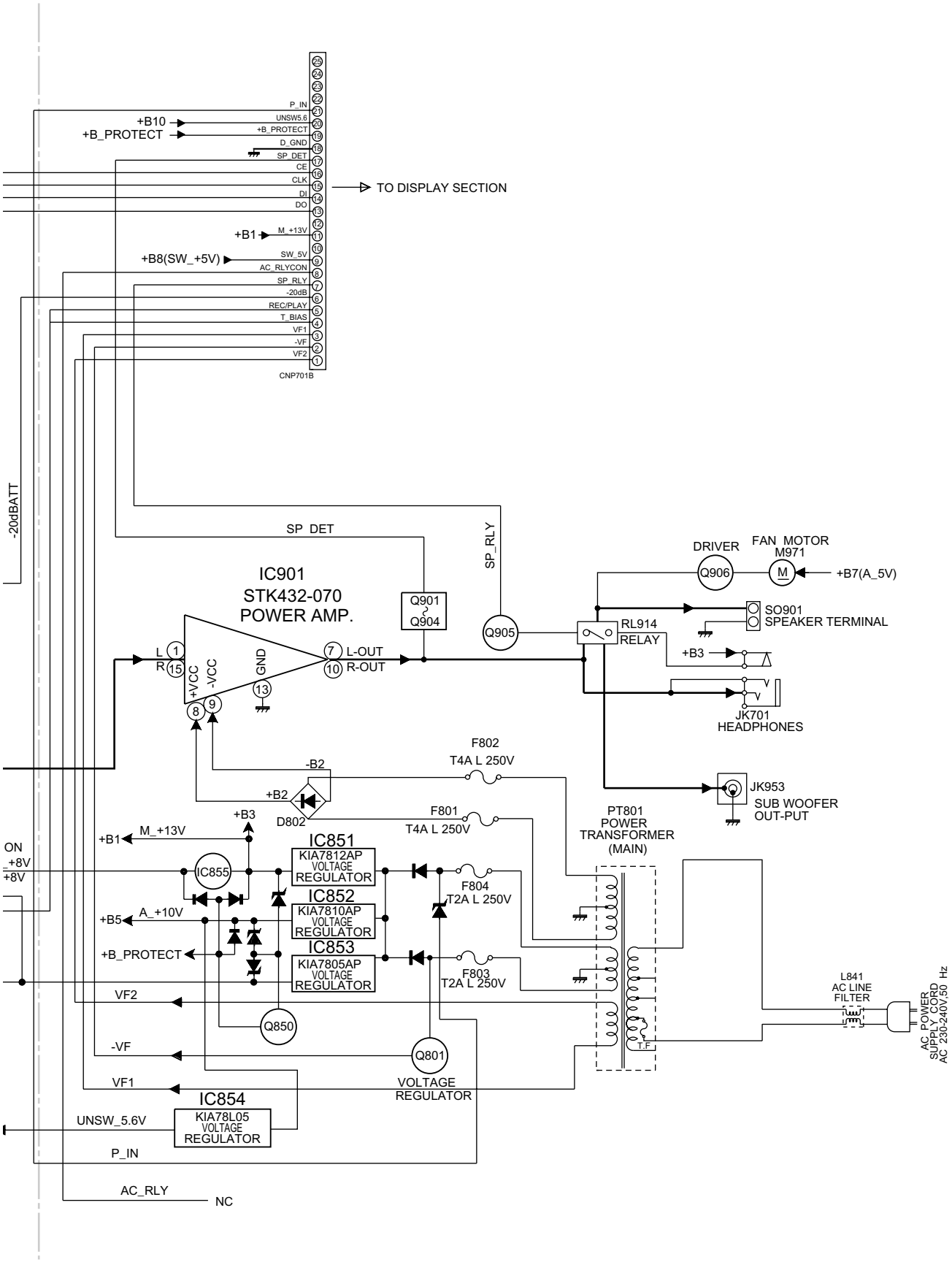


Figure 4-4 BLOCK DIAGRAM (4/8)

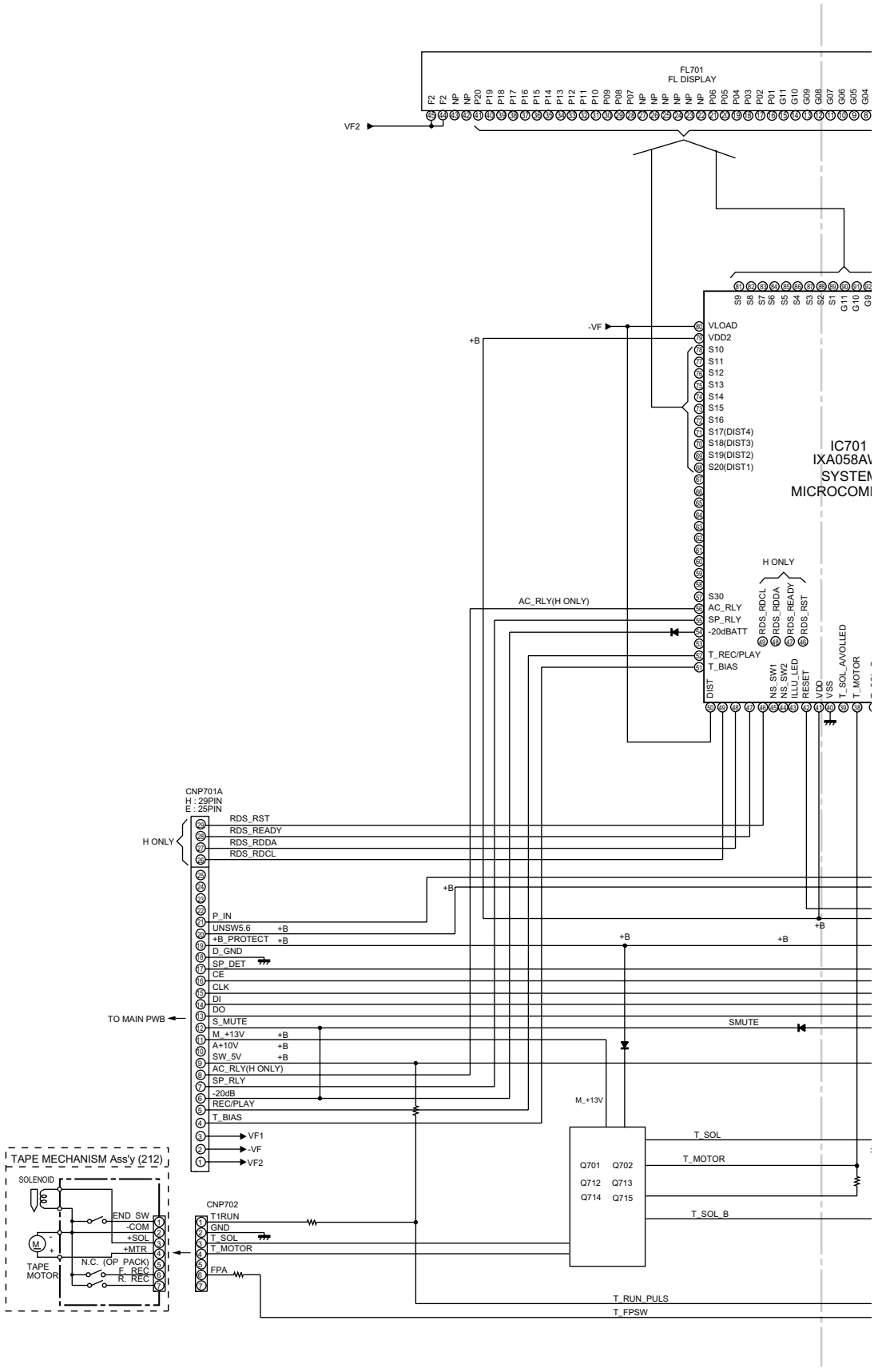


Figure 4-5 BLOCK DIAGRAM (5/8)

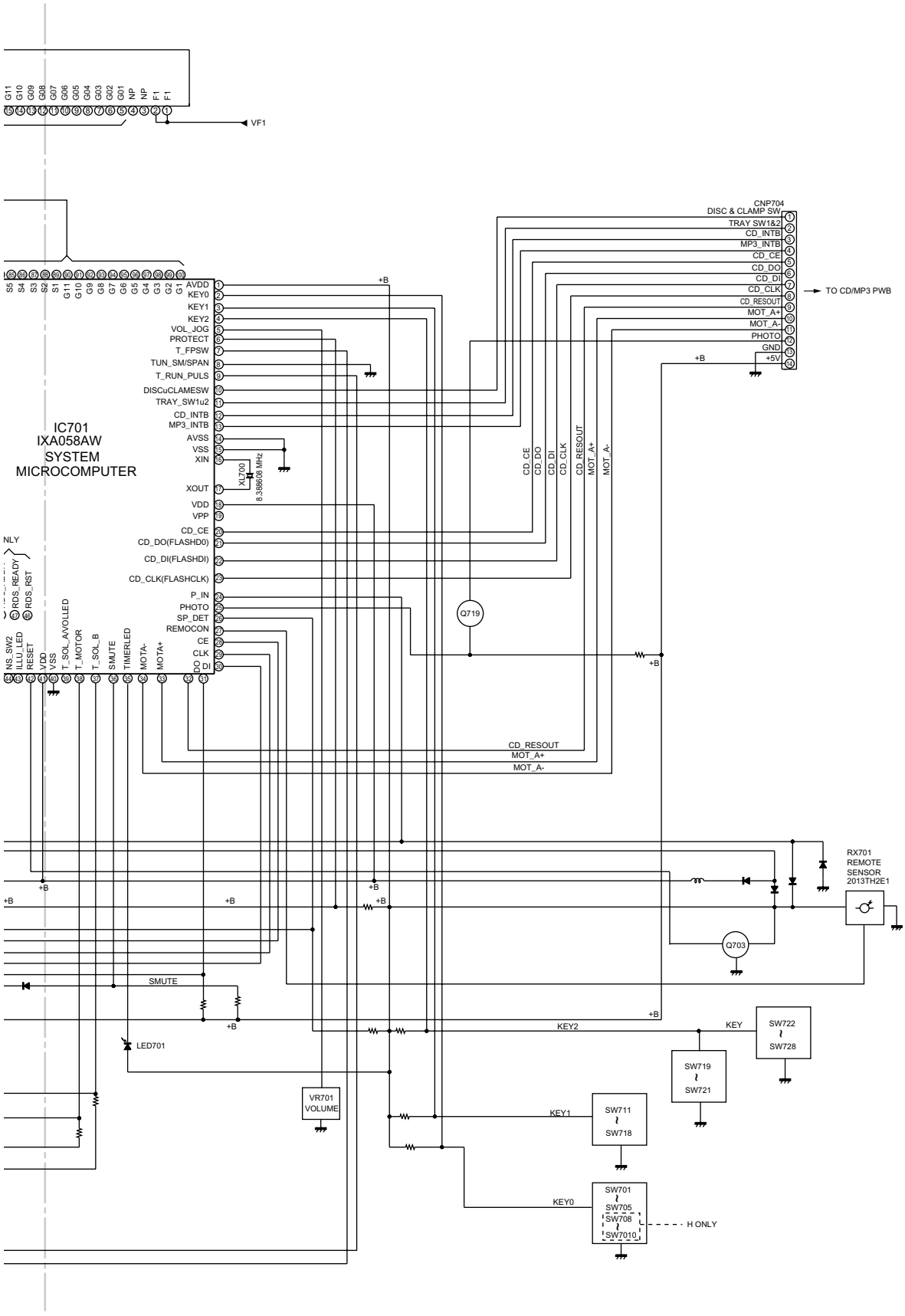


Figure 4-6 BLOCK DIAGRAM (6/8)

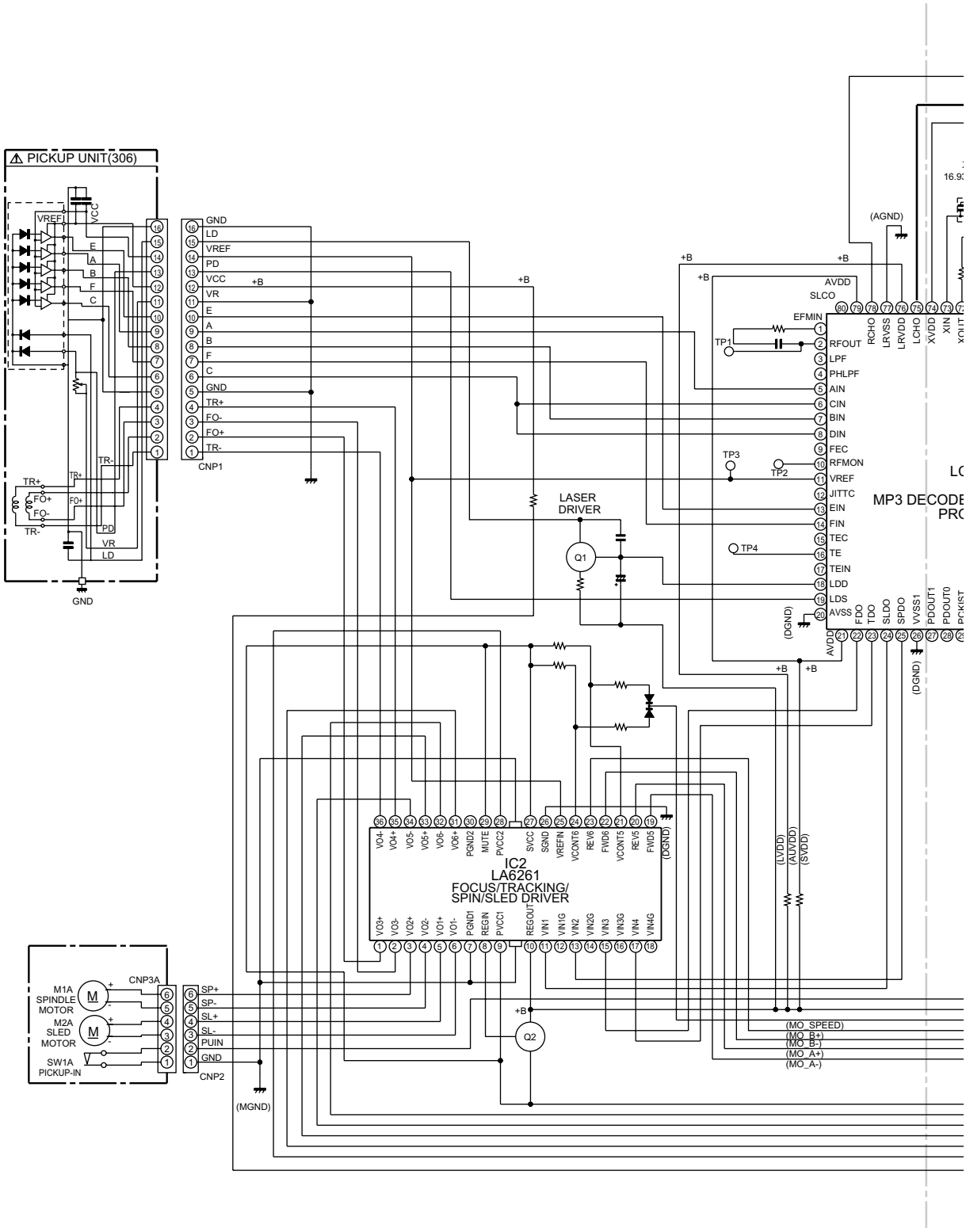


Figure 4-7 BLOCK DIAGRAM (7/8)

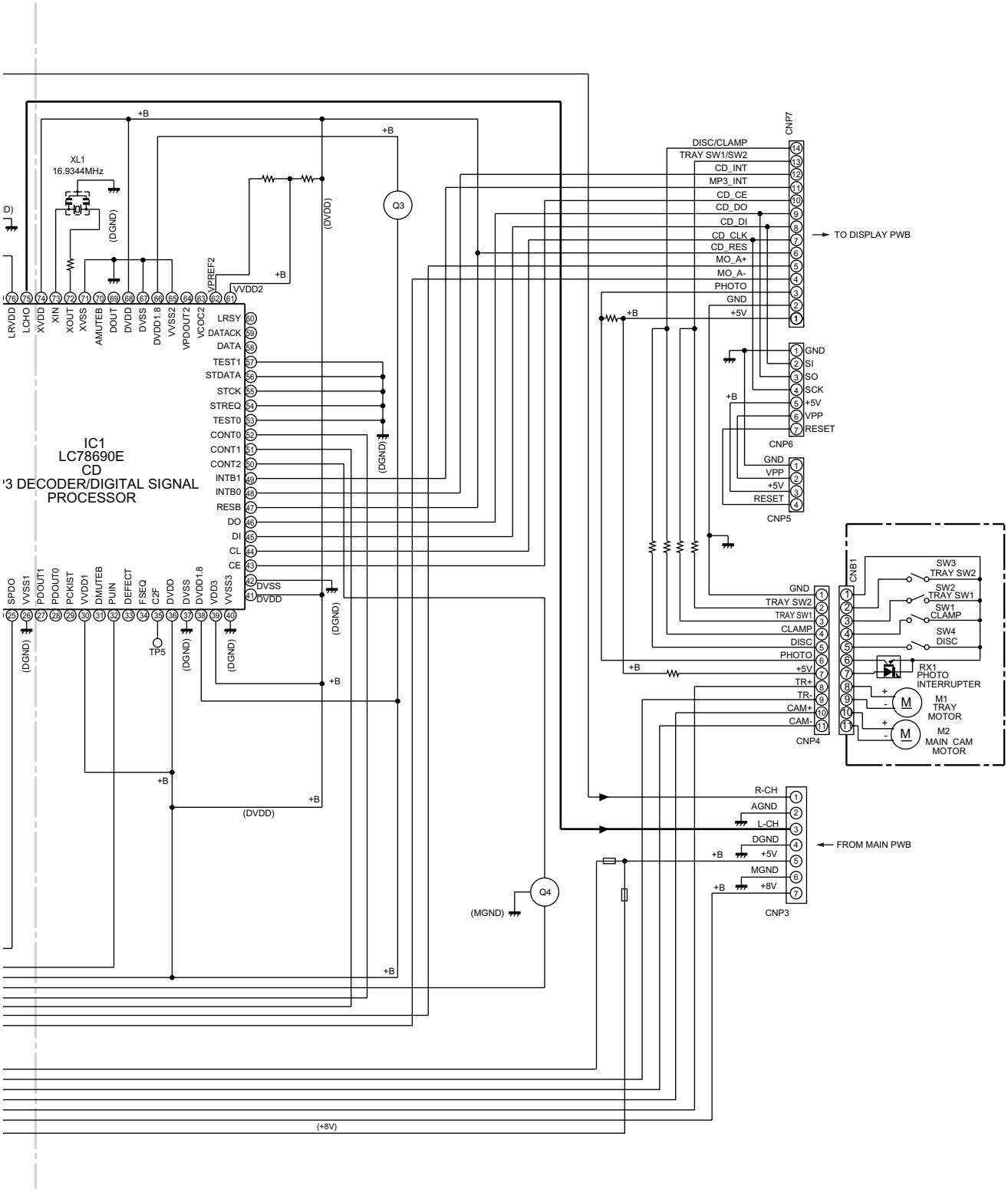
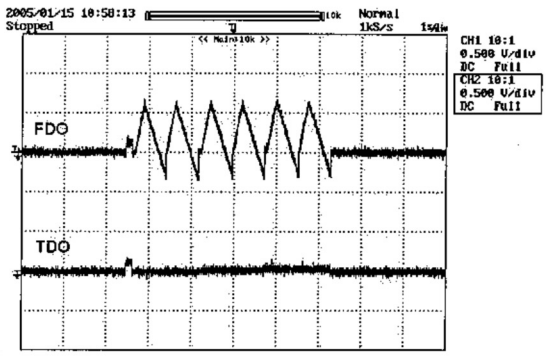


Figure 4-8 BLOCK DIAGRAM (8/8)

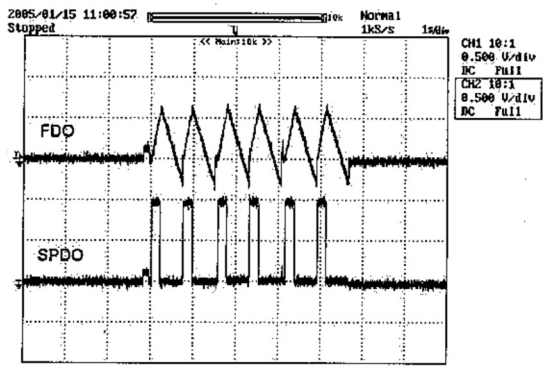
CHAPTER 5. CIRCUIT DESCRIPTION

[1] WAVEFORMS OF CD CIRCUIT

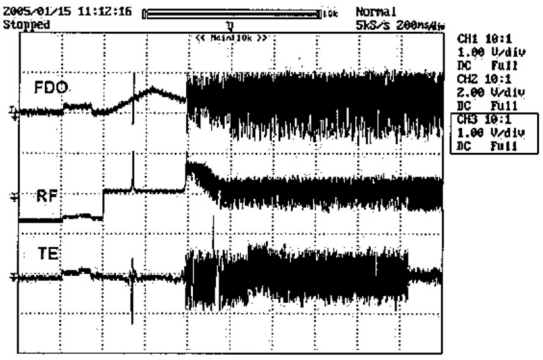
❸ IC1 ㉒ FDO
❹ IC1 ㉓ TDO



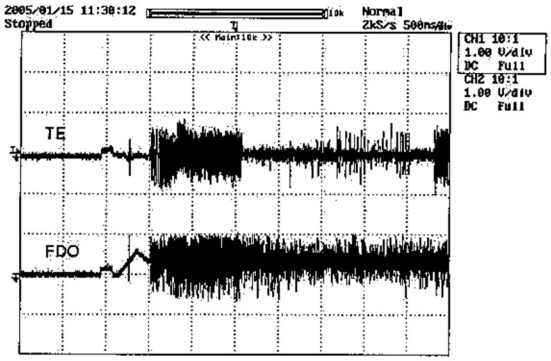
❸ IC1 ㉒ FDO
❺ IC1 ㉕ SPDO



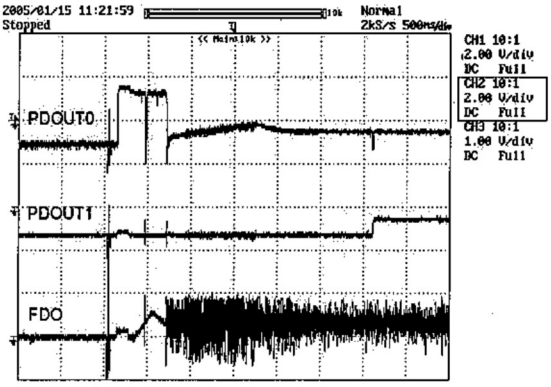
❸ IC1 ㉒ FDO
❶ IC1 ② RF
❷ IC1 ⑯ TE



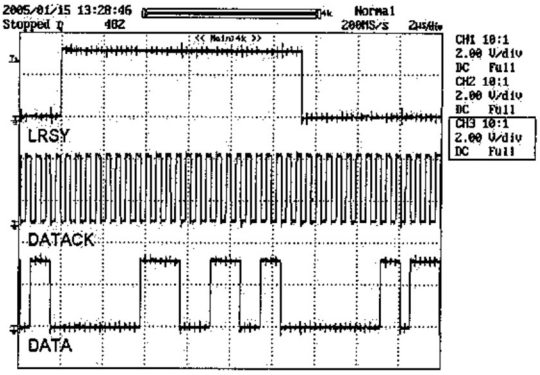
❷ IC1 ⑯ TE
❸ IC1 ㉒ FDO



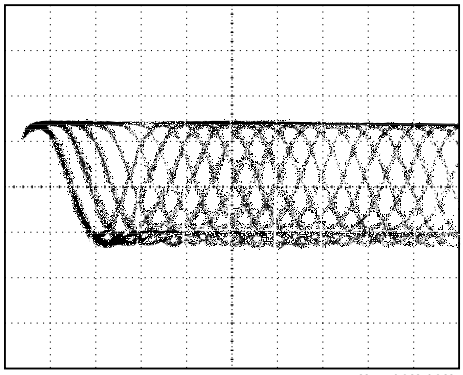
❼ IC1 ㉘ PDOUT0
❻ IC1 ㉗ PDOUT1
❸ IC1 ㉒ FDO



❿ IC1 ⑥⓪ LRSY
❾ IC1 ⑤⑨ DATACK
❽ IC1 ⑤⑧ DATA



❶ IC1 ②



Vp-p=1.0 V~1.3 V
0.5 mV/div,0.5 µsec/div

[2] VOLTAGE

IC302	
PIN NO.	VOLTAGE
1	2.57 V
2	0 V
3	0 V
4	0 V
5	0 V
6	5.13 V
7	10.18 V
8	4.75 V
9	0 V
10	0 V
11	5.23 V
12	0 V
13	5.23 V
14	0 V
15	0 V
16	2.57 V
17	5.24 V
18	0 V
19	0 V
20	10.18 V
21	0 V
22	2.57 V

IC303	
PIN NO.	VOLTAGE
1	2.11 V
2	6.10 V
3	2.11 V
4	2.11 V
5	0 V
6	0 V
7	5.10 V
8	3.00 V
9	5.03 V
10	0 V
11	3.90 V
12	3.90 V
13	2.28 V
14	1.29 V
15	1.26 V
16	2.07 V
17	0 V
18	2.20 V
19	2.04 V
20	1.29 V
21	2.40 V
22	2.40 V
23	5.02 V
24	3.52 V

IC101	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0.57 V
4	1.95 V
5	1.61 V
6	0 V
7	0 V
8	0.58 V
9	3.39 V
10	3.38 V
11	0 V
12	0 V
13	6.84 V
14	4.11 V
15	0 V
16	3.39 V
17	0.58 V
18	0 V
19	0 V
20	1.42 V
21	1.95 V
22	0.57 V
23	0 V
24	0 V

IC601	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	4.97 V
5	4.93 V
6	4.94 V
7	4.94 V
8	4.96 V
9	4.94 V
10	4.94 V
11	4.94 V
12	4.94 V
13	4.94 V
14	4.94 V
15	4.94 V
16	4.94 V
17	4.95 V
18	4.94 V
19	4.94 V
20	4.93 V
21	4.96 V
22	4.96 V
23	9.91 V
24	0 V

IC851	
PIN NO.	VOLTAGE
1	18.97 V
2	1.29 V
3	13.28 V

IC852	
PIN NO.	VOLTAGE
1	18.75 V
2	0 V
3	9.92 V

IC853	
PIN NO.	VOLTAGE
1	18.97 V
2	0 V
3	4.96 V

IC854	
PIN NO.	VOLTAGE
1	14.35 V
2	0.574 V
3	5.65 V

IC855	
PIN NO.	VOLTAGE
1	8.41 V
2	13.27 V
3	7.92 V

IC901	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	36.7 V
5	-35.4 V
6	0 V
7	0 V
8	37.9 V
9	0 V
10	0 V
11	0 V
12	-36.6 V
13	0 V
14	0 V
15	0 V

IC1	
PIN NO.	VOLTAGE
1	1.56 V
2	1.69 V
3	1.67 V
4	1.52 V
5	1.62 V
6	1.62 V
7	1.62 V
8	1.62 V
9	1.61 V
10	1.61 V
11	1.61 V
12	0 V
13	1.61 V
14	1.61 V
15	1.61 V
16	1.61 V
17	1.61 V
18	3.20 V
19	0 V
20	0 V
21	3.20 V
22	1.62 V
23	1.61 V
24	1.61 V
25	1.62 V
26	0 V
27	0 V
28	2.88 V
29	0.98 V
30	3.12 V
31	0 V
32	3.23 V
33	0 V
34	0 V
35	3.22 V
36	3.22 V
37	0 V
38	1.83 V
39	3.17 V
40	0 V
41	3.21 V
42	0 V
43	0 V
44	2.97 V
45	2.94 V
46	0.93 V
47	3.21 V
48	3.22 V
49	3.22 V
50	3.21 V
51	3.21 V
52	3.21 V
53	0 V
54	0 V
55	0 V
56	0 V
57	0 V
58	0 V
59	0 V
60	3.12 V
61	3.10 V
62	1.53 V
63	0 V
64	0 V
65	0 V
66	1.83 V
67	0 V
68	3.22 V
69	0 V
70	0 V
71	0 V
72	1.28 V
73	1.41 V
74	3.08 V
75	1.58 V
76	3.17 V
77	0 V
78	1.58 V
79	3.20 V
80	1.56 V

IC2	
PIN NO.	VOLTAGE
1	2.04 V
2	2.03 V
3	2.04 V
4	2.03 V
5	2.03 V
6	2.04 V
7	0 V
8	4.15 V
9	4.80 V
10	3.23 V
11	1.61 V
12	1.61 V
13	1.61 V
14	1.61 V
15	1.61 V
16	1.61 V
17	1.61 V
18	1.61 V
19	4.30 V
20	4.30 V
21	3.07 V
22	3.17 V
23	3.17 V
24	2.84 V
25	1.61 V
26	0 V
27	4.77 V
28	7.69 V
29	4.74 V
30	0 V
31	0 V
32	0 V
33	0 V
34	0 V
35	2.03 V
36	2.03 V

1CT21 (XL-MP110H Only)	
PIN NO.	VOLTAGE
1	2.57 V
2	2.57 V
3	5.15 V
4	0 V
5	2.66 V
6	2.66 V
7	0 V
8	2.73 V
9	2.73 V
10	0 V
11	5.16 V
12	5.16 V
13	0 V
14	0 V
15	0 V
16	5.16 V

Q1	
PIN NO.	VOLTAGE
E	3.23 V
C	0 V
B	3.19 V

Q2	
PIN NO.	VOLTAGE
E	4.76 V
C	3.23 V
B	4.11 V

Q3	
PIN NO.	VOLTAGE
E	1.83 V
C	3.23 V
B	2.32 V

Q4	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	3.00 V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	5 V	51	0.29 V
2	5 V	52	0.28 V
3	5 V	53	0.23 V
4	5 V	54	0.25 V
5	1.33 V	55	0.33 V
6	5 V	56	4.53 V
7	5 V	57	-28.79 V
8	0 V	58	-26.24 V
9	2.967 V	59	-15.65 V
10	4.94 V	60	-28.78 V
11	4.96 V	61	-28.78 V
12	3.93 V	62	-20.88 V
13	1.684 V	63	-28.78 V
14	0 V	64	-10.3 V
15	0 V	65	-10.28 V
16	2.328 V	66	-12 V
17	2.709 V	67	-20.91 V
18	4.63 V	68	-25.99 V
19	0.96 V	69	-28.78 V
20	0 V	70	-25.98 V
21	1.604 V	71	-18.28 V
22	4.6 V	72	-10.25 V
23	4.6 V	73	-26.15 V
24	1.828 V	74	-25.98 V
25	4.96 V	75	-28.78 V
26	5 V	76	-23.34 V
27	4.86 V	77	-26.14 V
28	0 V	78	-26 V
29	0 V	79	-4.66 V
30	0 V	80	-28.9 V
31	4.95 V	81	-23.49 V
32	0 V	82	-25.96 V
33	0 V	83	-26.1 V
34	4.96 V	84	-25.93 V
35	2.026 V	85	-25.93 V
36	4.96 V	86	-25.93 V
37	11.64 V	87	-25.93 V
38	13.28 V	88	-25.93 V
39	13.28 V	89	-25.93 V
40	0 V	90	-25.93 V
41	4.64 V	91	-25.93 V
42	4.8 V	92	-25.93 V
43	4.63 V	93	-25.93 V
44	4.64 V	94	-25.93 V
45	4.64 V	95	-25.93 V
46	0 V	96	-25.93 V
47	1.628 V	97	-25.93 V
48	1.088 V	98	-25.93 V
49	0 V	99	-25.93 V
50	-0.6 V	100	-25.93 V

Q101	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.69 V

Q102	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.70 V

Q103	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.69 V

Q104	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.69 V

Q105	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0 V

Q106	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0 V

Q107	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.65 V

Q108	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.65 V

Q109	
PIN NO.	VOLTAGE
E	9.92 V
C	0.2 V
B	9.87 V

Q110	
PIN NO.	VOLTAGE
E	0 V
C	9.87 V
B	0 V

Q111	
PIN NO.	VOLTAGE
E	0.18 V
C	0.18 V
B	0 V

Q112	
PIN NO.	VOLTAGE
E	7.98 V
C	7.93 V
B	7.26 V

Q113	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	3.54 V

Q114	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	3.54 V

Q601	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.71 V

Q602	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.71 V

Q607	
PIN NO.	VOLTAGE
E	3.78 V
C	3.74 V
B	0 V

Q801	
PIN NO.	VOLTAGE
E	41.5 V
C	28.98 V
B	29.55 V

Q841	
PIN NO.	VOLTAGE
E	0.12 V
C	0 V
B	0.70 V

Q901	
PIN NO.	VOLTAGE
E	0 V
C	5.11 V
B	0 V

Q902	
PIN NO.	VOLTAGE
E	0 V
C	5.16 V
B	0 V

Q903	
PIN NO.	VOLTAGE
E	0 V
C	5.01 V
B	0 V

Q904	
PIN NO.	VOLTAGE
E	0 V
C	5.02 V
B	0 V

Q905	
PIN NO.	VOLTAGE
E	0 V
C	0 V
B	0.80 V

Q906	
PIN NO.	VOLTAGE
E	4.96 V
C	0 V
B	0 V

Q701	
PIN NO.	VOLTAGE
E	1 V
C	13 V
B	13 V

Q702	
PIN NO.	VOLTAGE
E	4.75 V
C	0 V
B	0 V

Q703	
PIN NO.	VOLTAGE
E	4.75 V
C	0 V
B	0 V

Q712	
PIN NO.	VOLTAGE
E	4.75 V
C	0 V
B	0 V

Q713	
PIN NO.	VOLTAGE
E	0 V
C	13 V
B	13 V

Q714	
PIN NO.	VOLTAGE
E	4.78 V
C	0 V
B	0 V

Q715	
PIN NO.	VOLTAGE
E	0 V
C	13 V
B	13 V

Q716	
PIN NO.	VOLTAGE
E	4.75 V
C	0 V
B	0 V

Q719	
PIN NO.	VOLTAGE
E	4.75 V
C	0 V
B	0 V

-MEMO-

CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

[1] NOTES ON SCHEMATIC DIAGRAM

- Resistor:

  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.

- Capacitor:

  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.

  (CH), (TH), (RH), (UJ): Temperature compensation

  (ML): Mylar type

  (P.P.): Polypropylene type

- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

1. In the tuner section,

   indicates AM

   indicates FM stereo

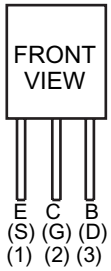
2. In the main section, a tape is being played back.
3. In the deck section, a tape is being played back.
4. In the power section, a tape is being played back.
5. In the CD section, the CD is stopped.

- Parts marked with “ ⚠ ” (⊏ ⎓ ⎓ ⎓ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

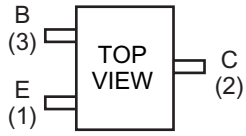
REF. NO	DESCRIPTION	POSITION
SW1	CLAMP	ON—OFF
SW1A	PICKUP IN	ON—OFF
SW2	TRAY SW1	ON—OFF
SW3	TRAY SW2	ON—OFF
SW4	DISC	ON—OFF
SW701	ON/STAND-BY	ON—OFF
SW702	CLOCK/TIMER	ON—OFF
SW703	REC/PAUSE	ON—OFF
SW704	PRESET UP	ON—OFF
SW705	PRESET DOWN	ON—OFF
SW708	DISPLAY MODE [XL-MP110H]	ON—OFF
SW709	PTY/TI SEARCH [XL-MP110H]	ON—OFF
SW710	ASPM [XL-MP110H]	ON—OFF
SW711	VIDEO/AUX	ON—OFF
SW712	TUNER (BAND)	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW713	PLAY/REPEAT	ON—OFF
SW714	TUNING/TIME DOWN	ON—OFF
SW715	TUNING/TIME UP	ON—OFF
SW716	STOP	ON—OFF
SW717	CD	ON—OFF
SW718	TAPE	ON—OFF
SW719	MEMORY/SET	ON—OFF
SW720	EQUALISER	ON—OFF
SW721	X-BASS/DEMO	ON—OFF
SW722	DIRECT PLAY	ON—OFF
SW723	DISC 1	ON—OFF
SW724	DISC 2	ON—OFF
SW725	DISC 3	ON—OFF
SW726	DISC 4	ON—OFF
SW727	DISC 5	ON—OFF
SW728	OPEN/CLOSE	ON—OFF

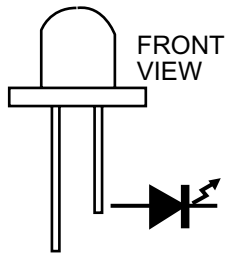
[2] TYPES OF TRANSISTOR AND LED



KTA1271 Y
KTA1273 Y
KTA1274 Y
KTC3199 GR
KTC3200 GR
KTC3203 Y
2SC380 O
KTC2026

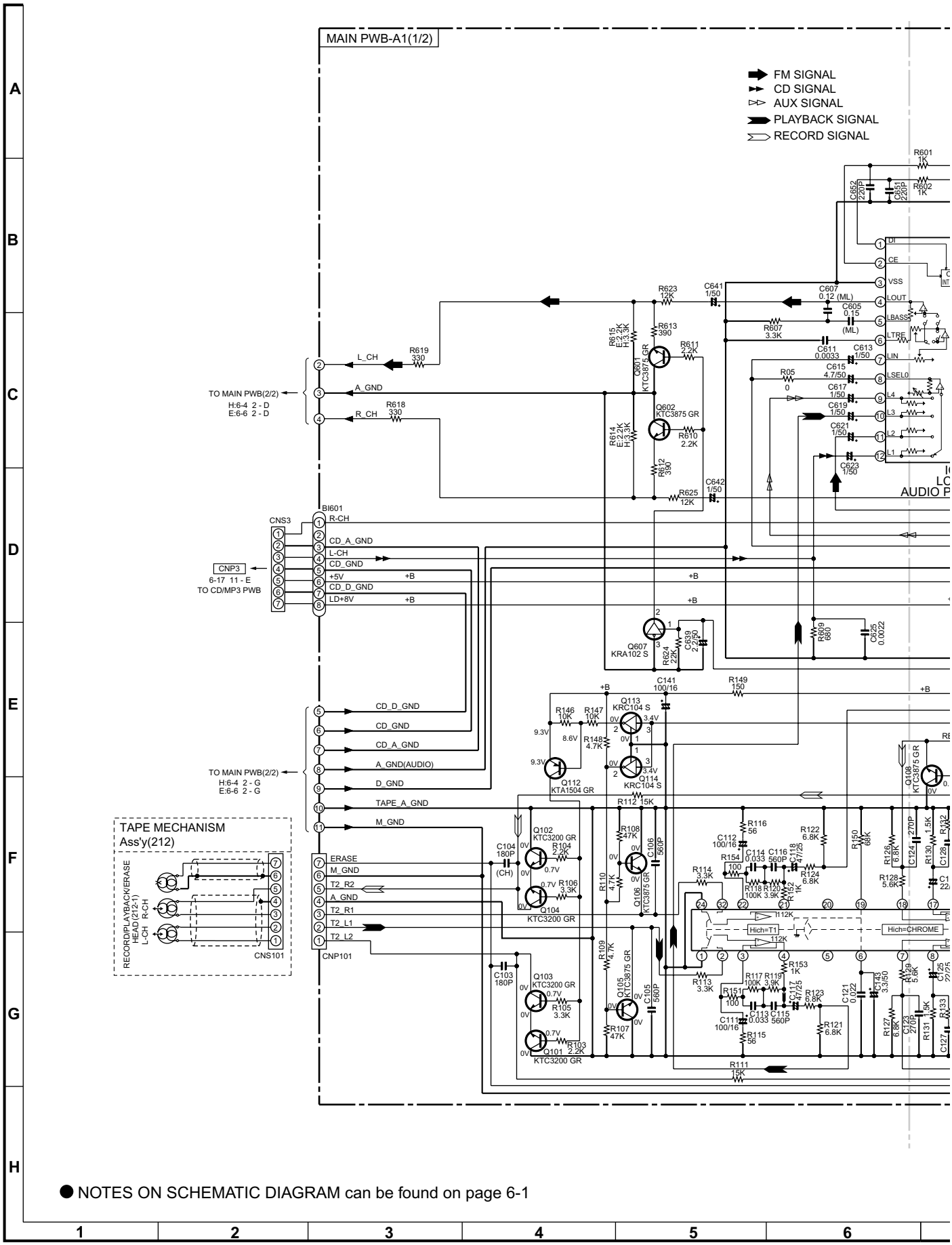


KTA1504 Y
KTA1504 GR
KTC3875 GR
KRA102 S
KRA107 S
KRC104 S
KRC102 S



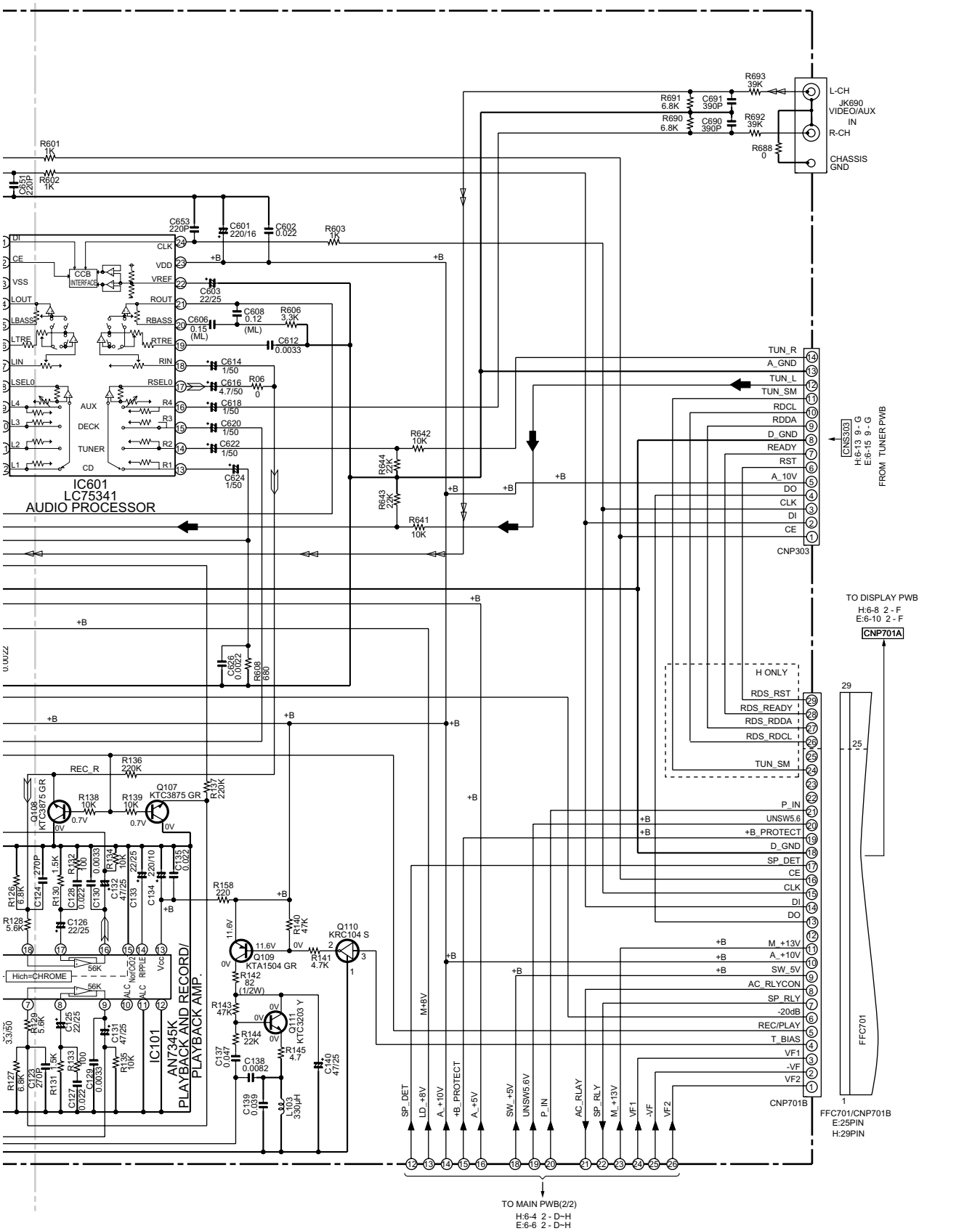
SLR343VC3F

[3] WIRING SIDE OF PWB/SCHEMATIC DIAGRAM



● NOTES ON SCHEMATIC DIAGRAM can be found on page 6-1

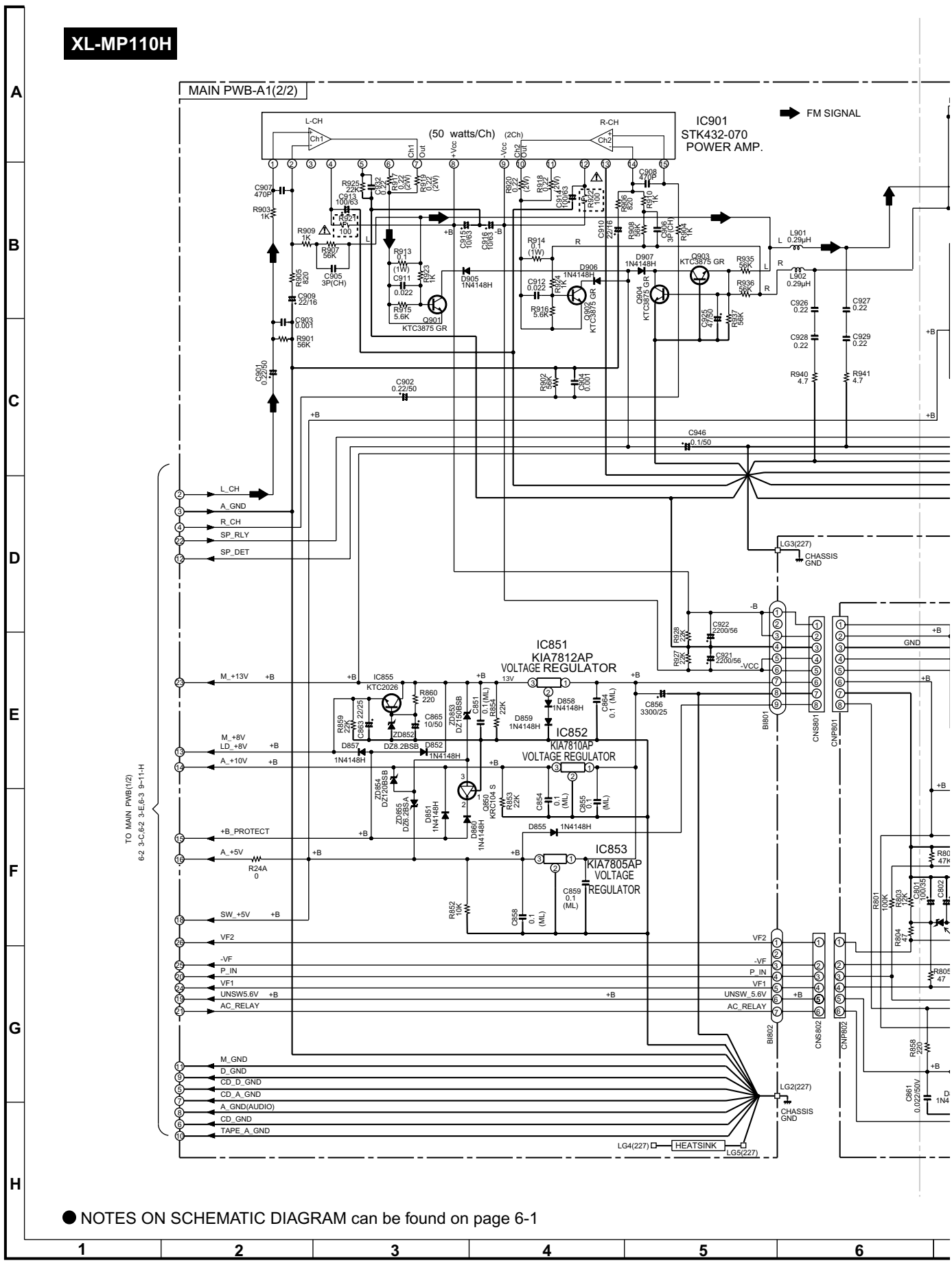
Figure 6-2 SCHEMATIC DIAGRAM (1/16)



	7	8	9	10	11	12

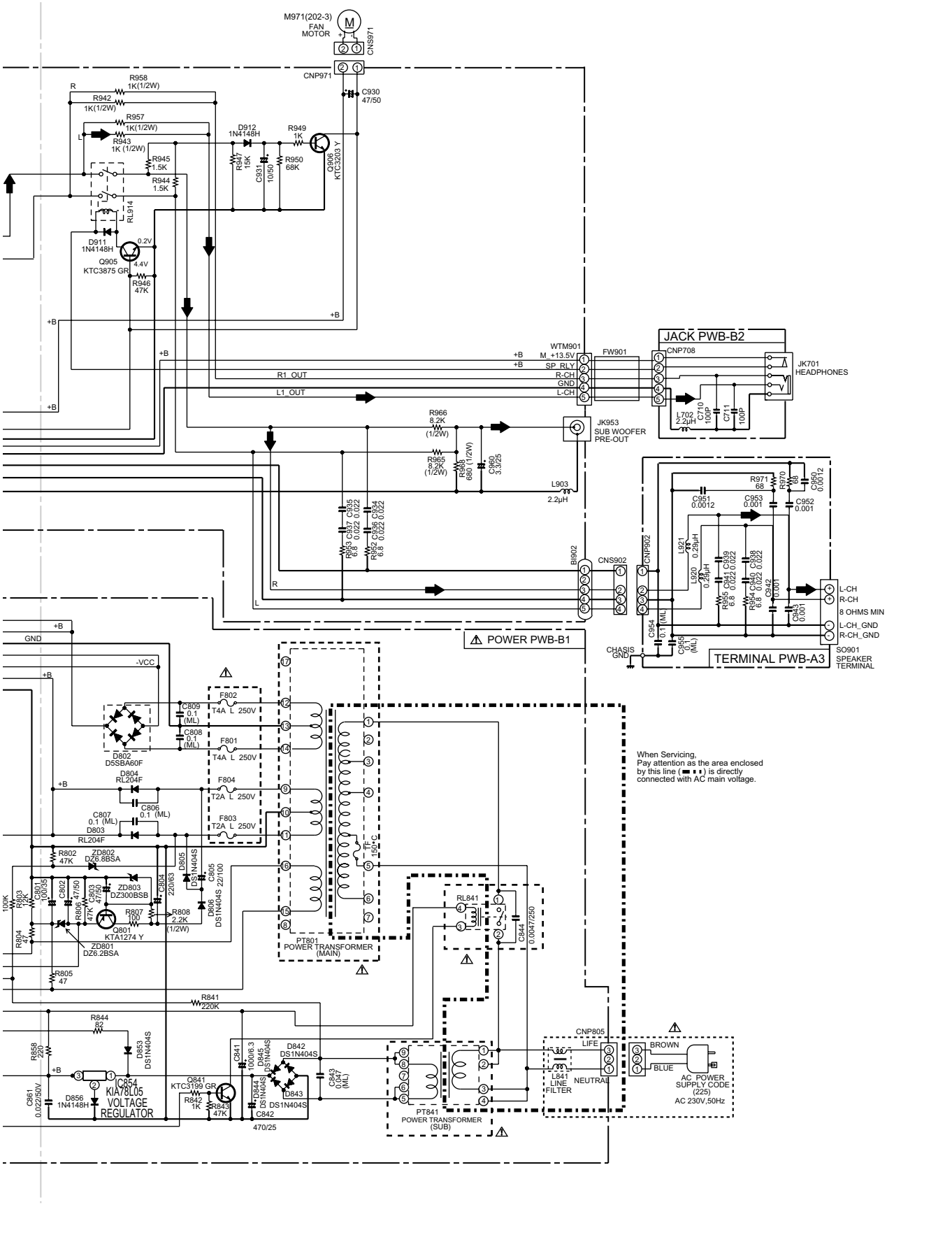
Figure 6-3 SCHEMATIC DIAGRAM (2/16)

XL-MP110H



● NOTES ON SCHEMATIC DIAGRAM can be found on page 6-1

Figure 6-4 SCHEMATIC DIAGRAM (3/16)



7	8	9	10	11	12

Figure 6-5 SCHEMATIC DIAGRAM (4/16)

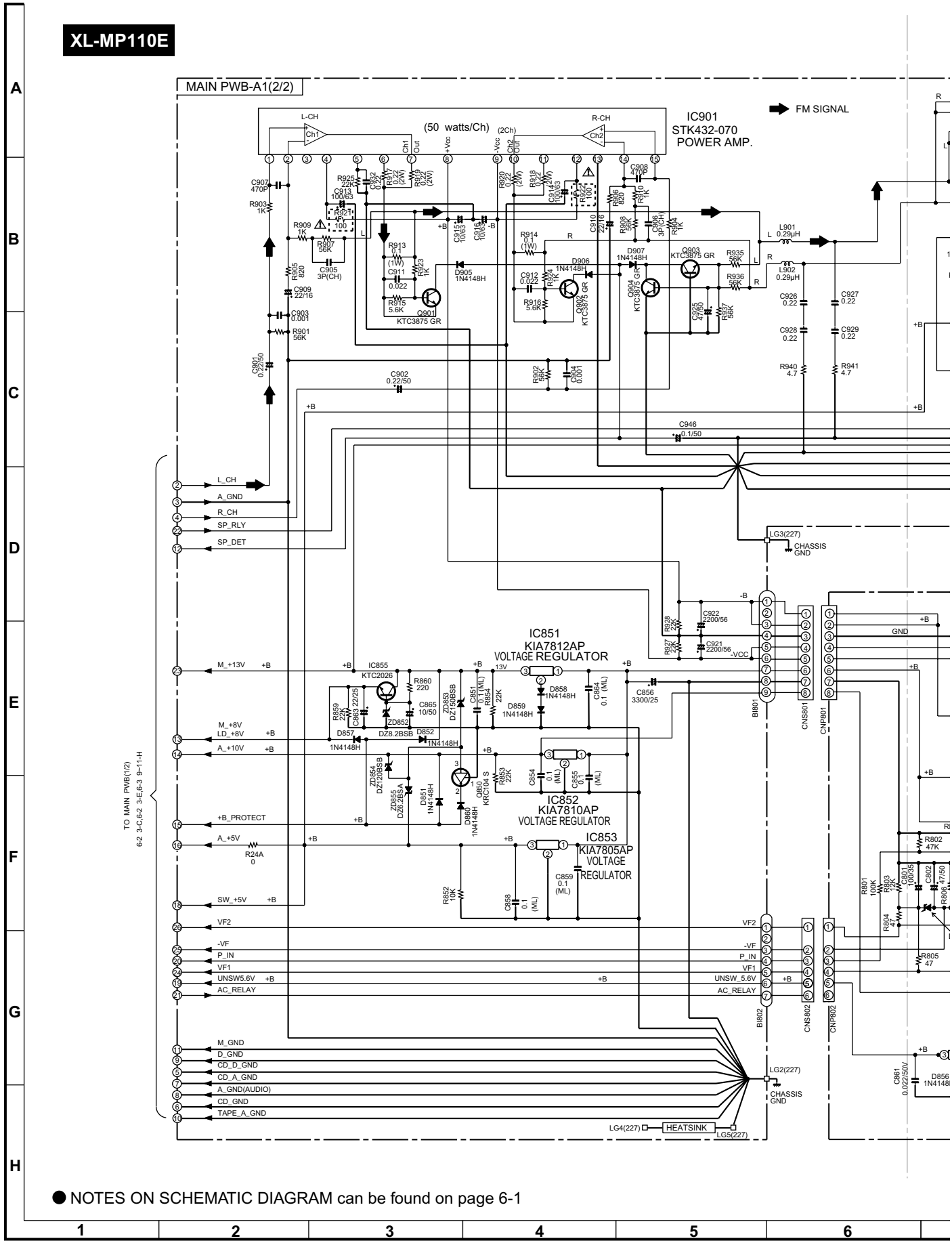
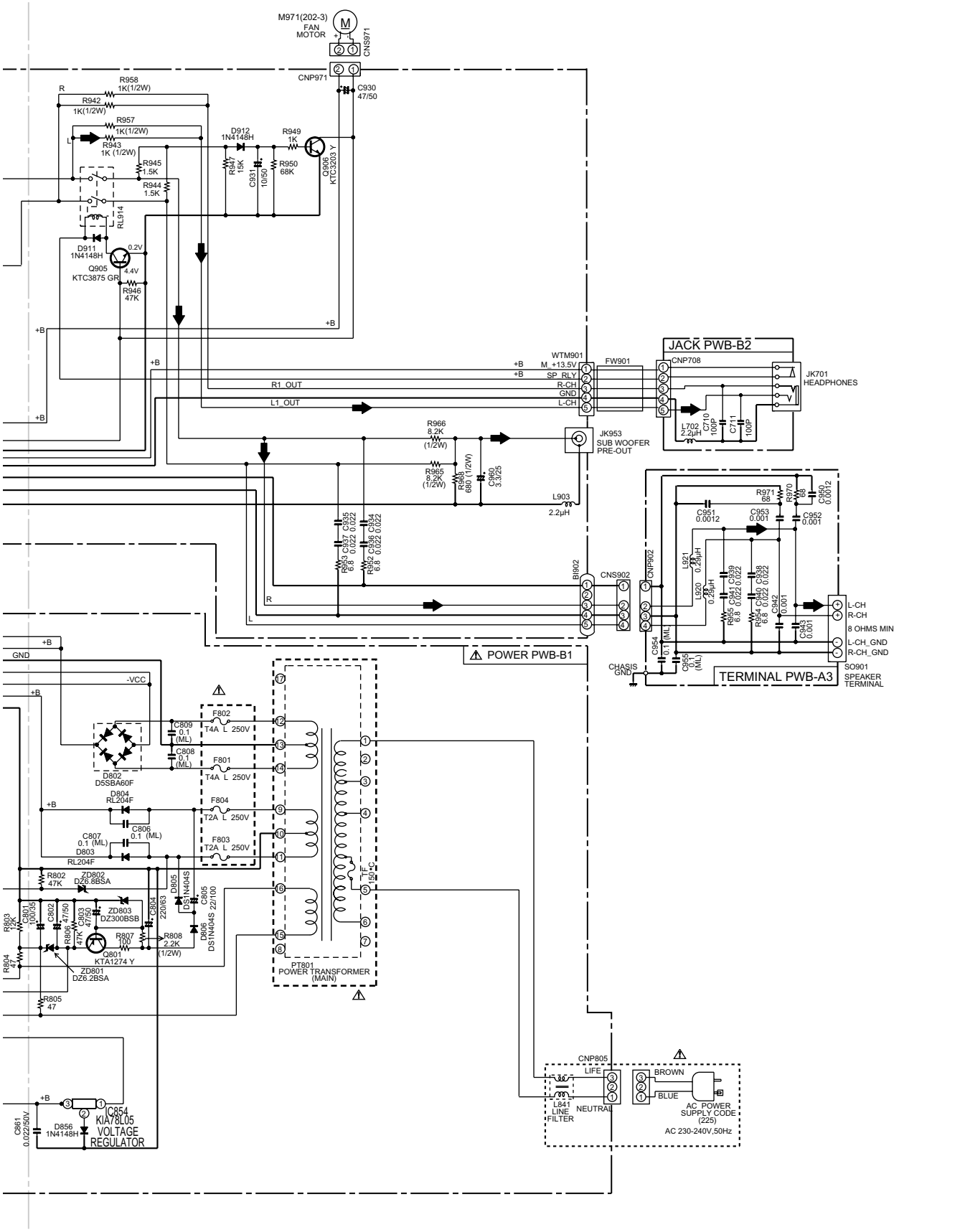
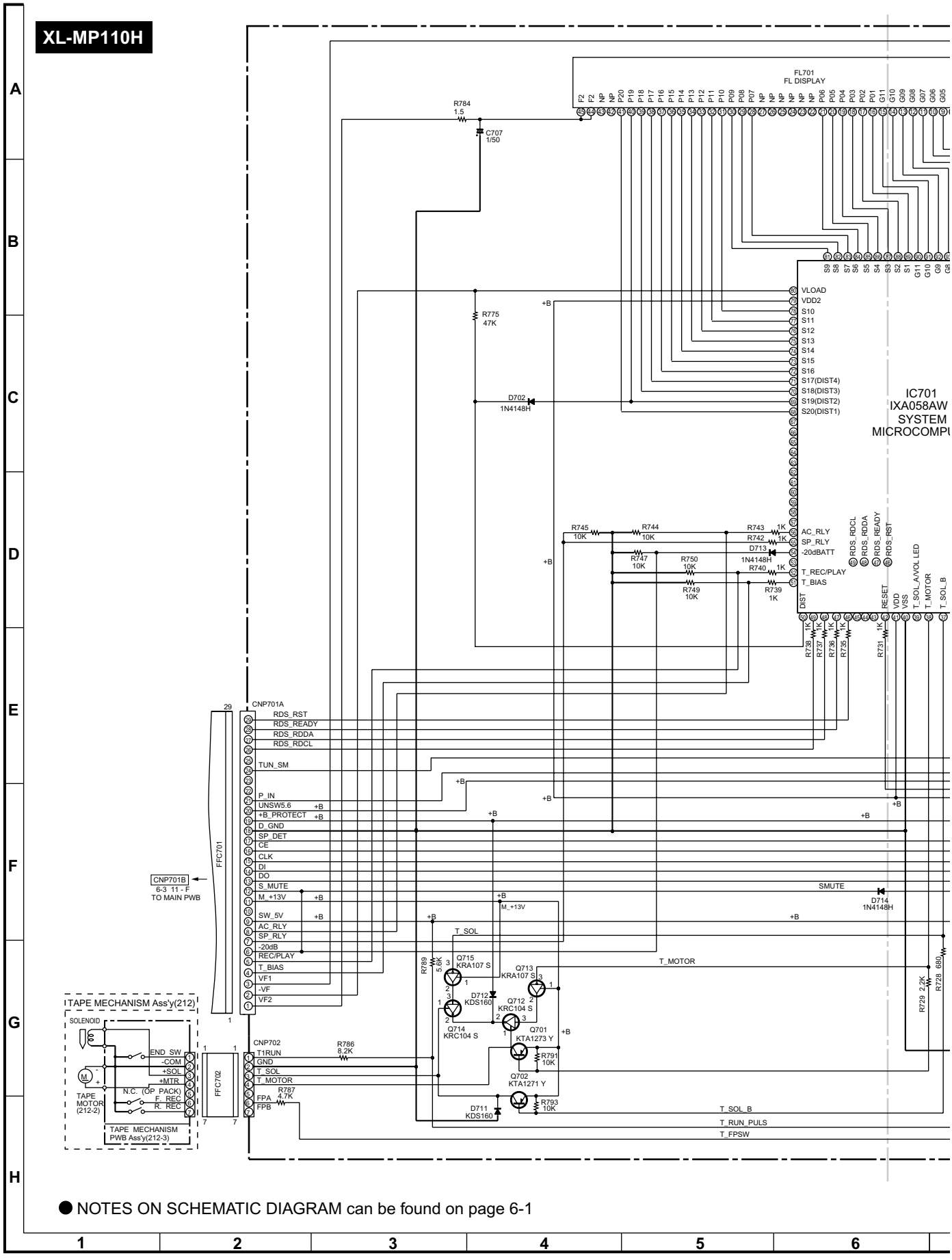


Figure 6-6 SCHEMATIC DIAGRAM (5/16)



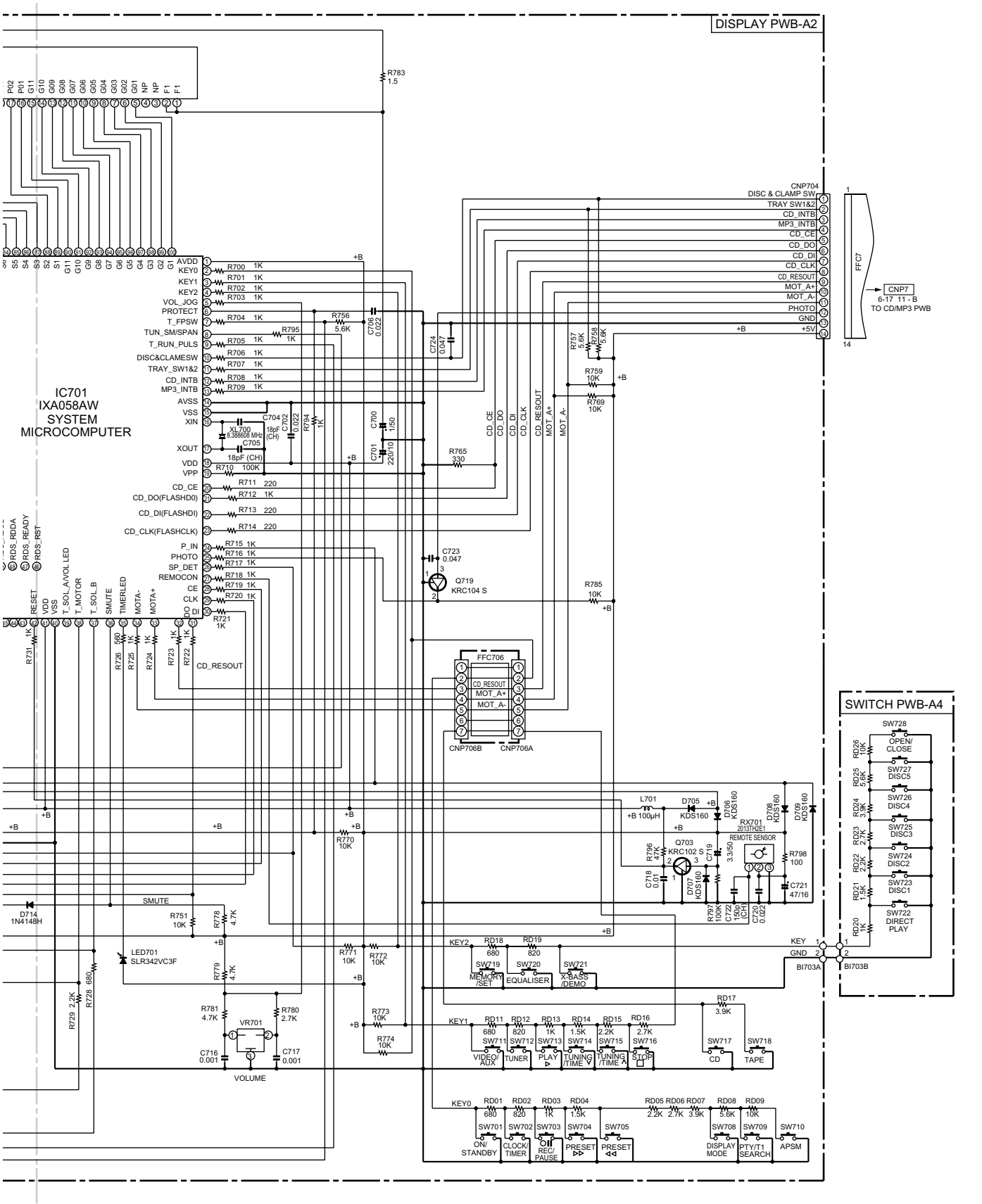
7	8	9	10	11	12

Figure 6-7 SCHEMATIC DIAGRAM (6/16)



● NOTES ON SCHEMATIC DIAGRAM can be found on page 6-1

Figure 6-8 SCHEMATIC DIAGRAM (7/16)



6	7	8	9	10	11	12

Figure 6-9 SCHEMATIC DIAGRAM (8/16)

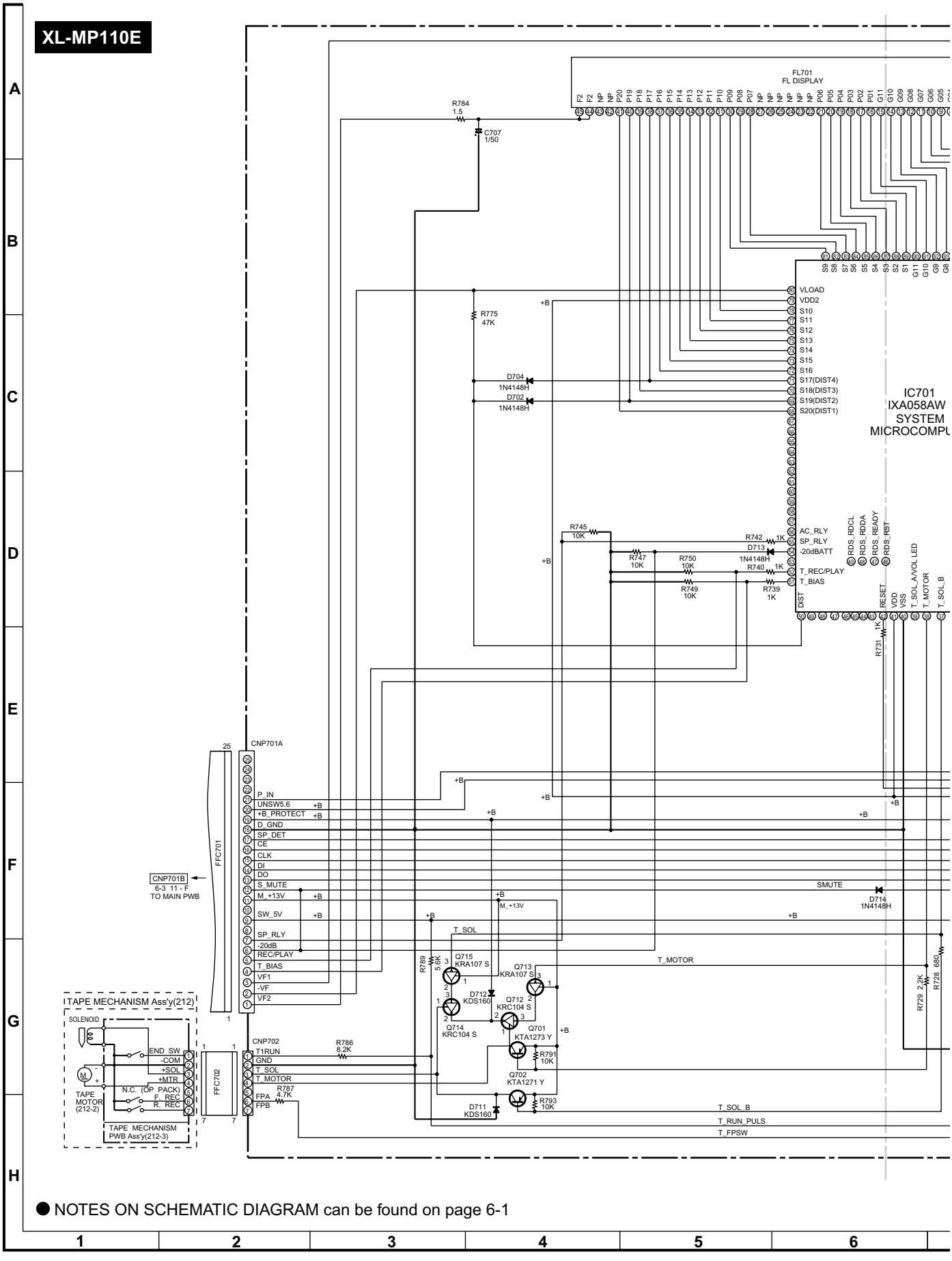
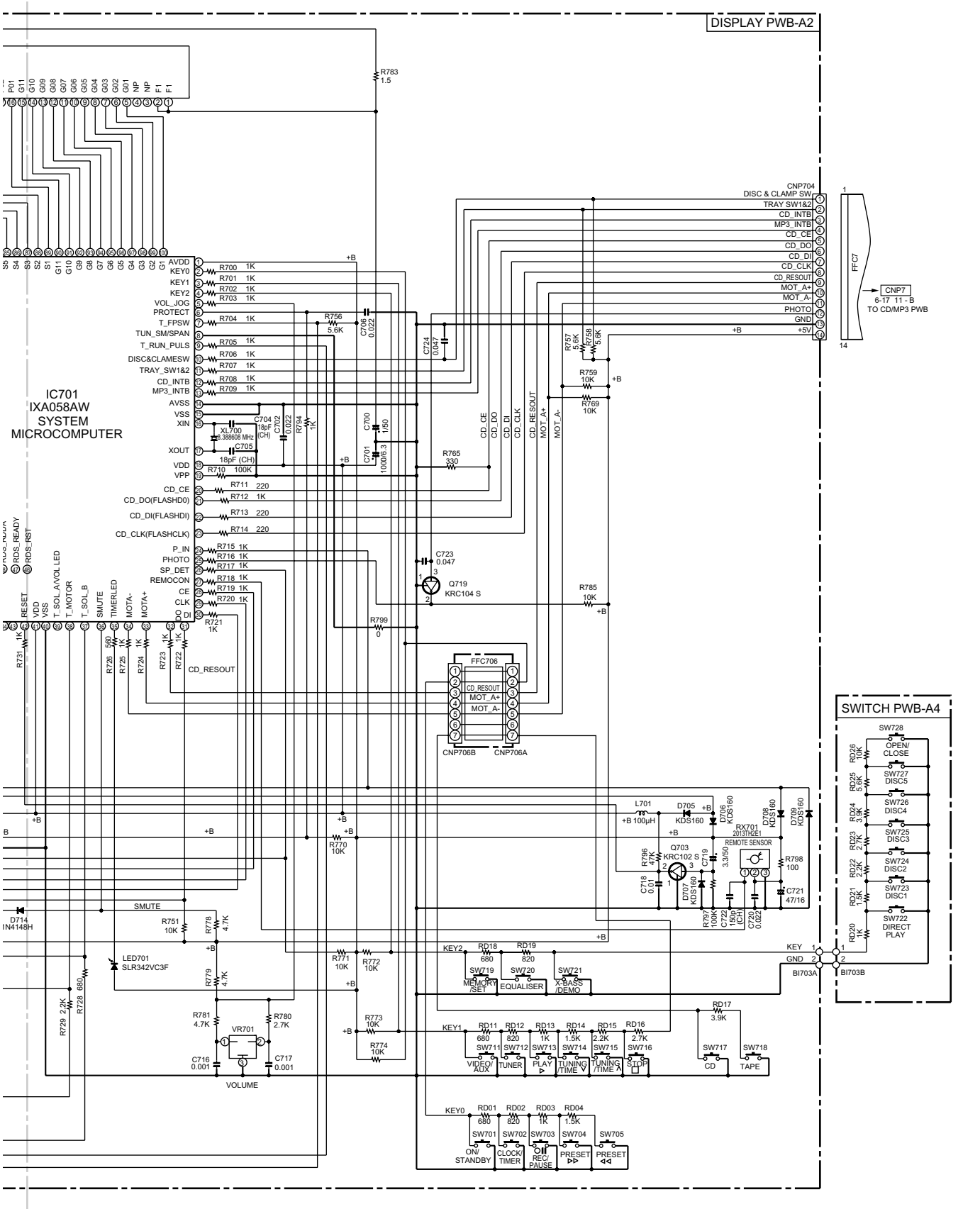


Figure 6-10 SCHEMATIC DIAGRAM (9/16)



7	8	9	10	11	12

Figure 6-11 SCHEMATIC DIAGRAM (10/16)

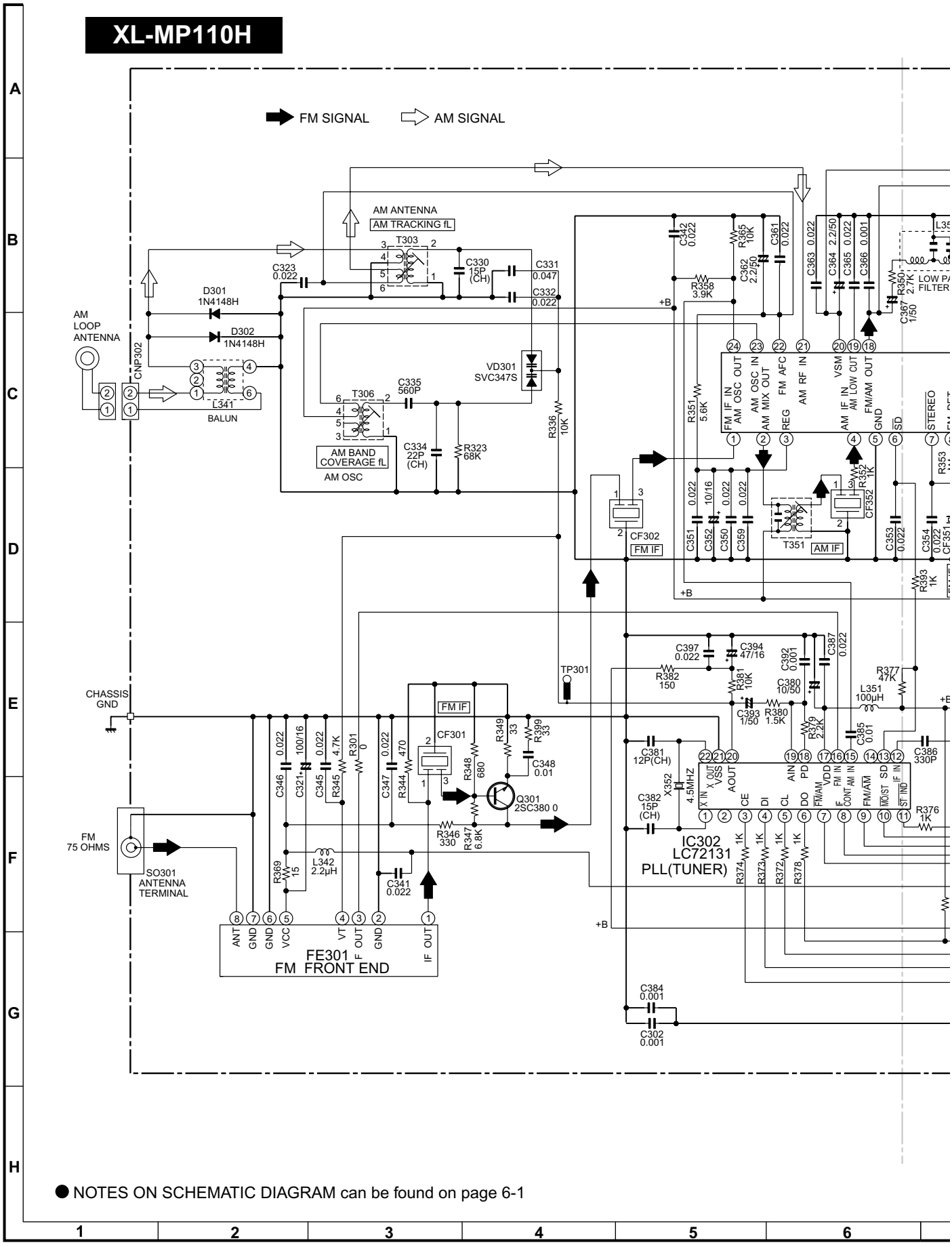
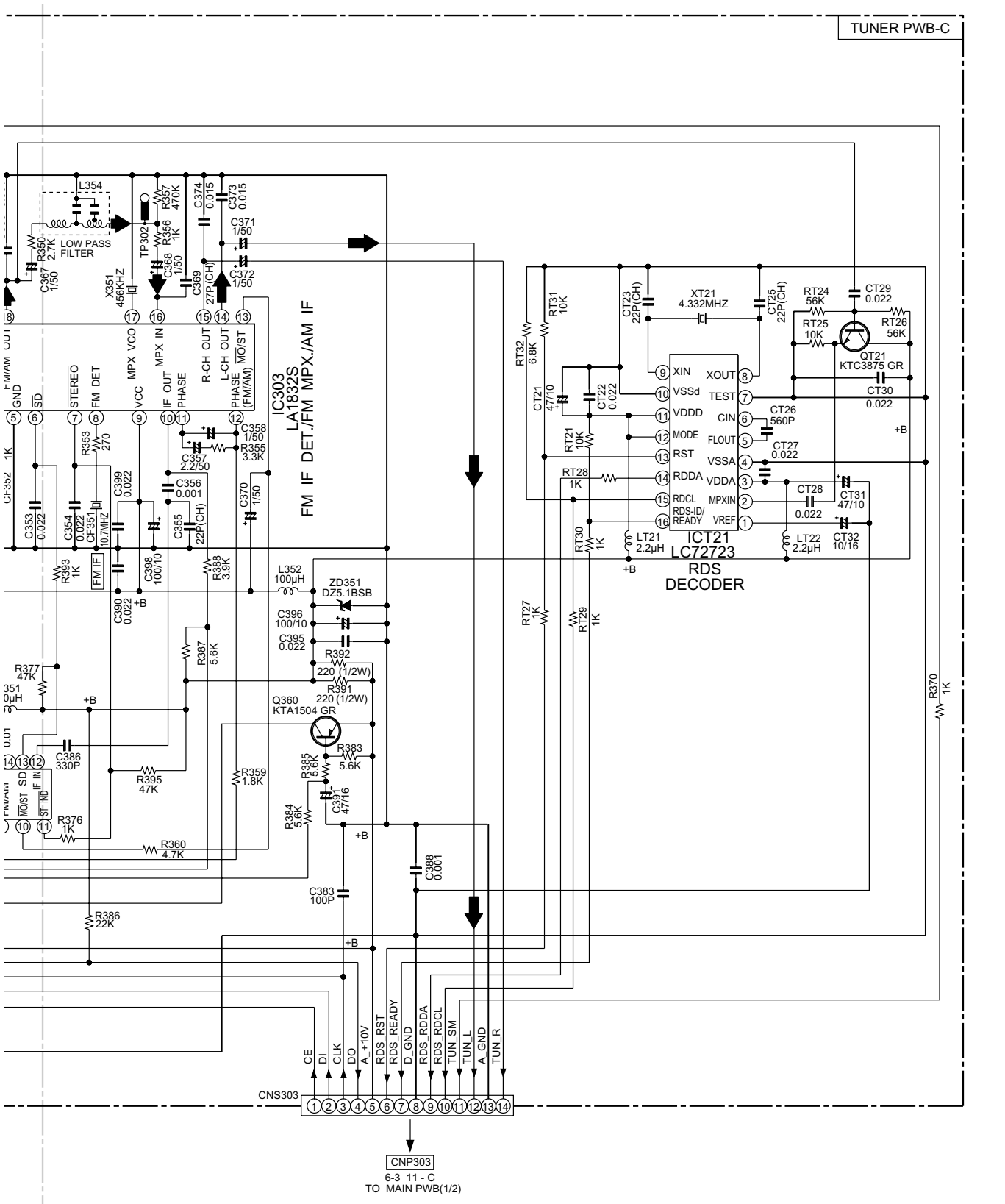


Figure 6-12 SCHEMATIC DIAGRAM (11/16)



	7	8	9	10	11	12

Figure 6-13 SCHEMATIC DIAGRAM (12/16)

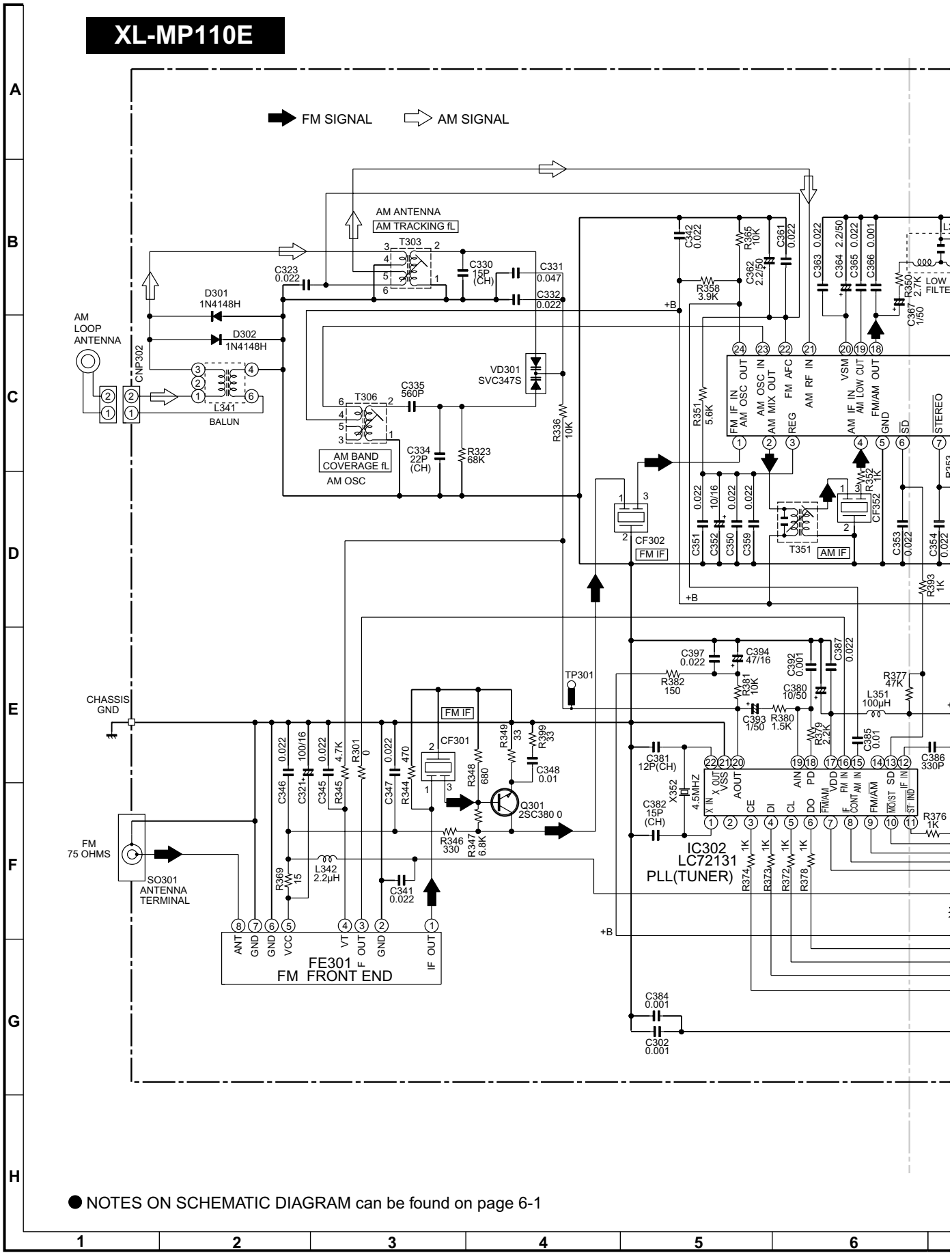
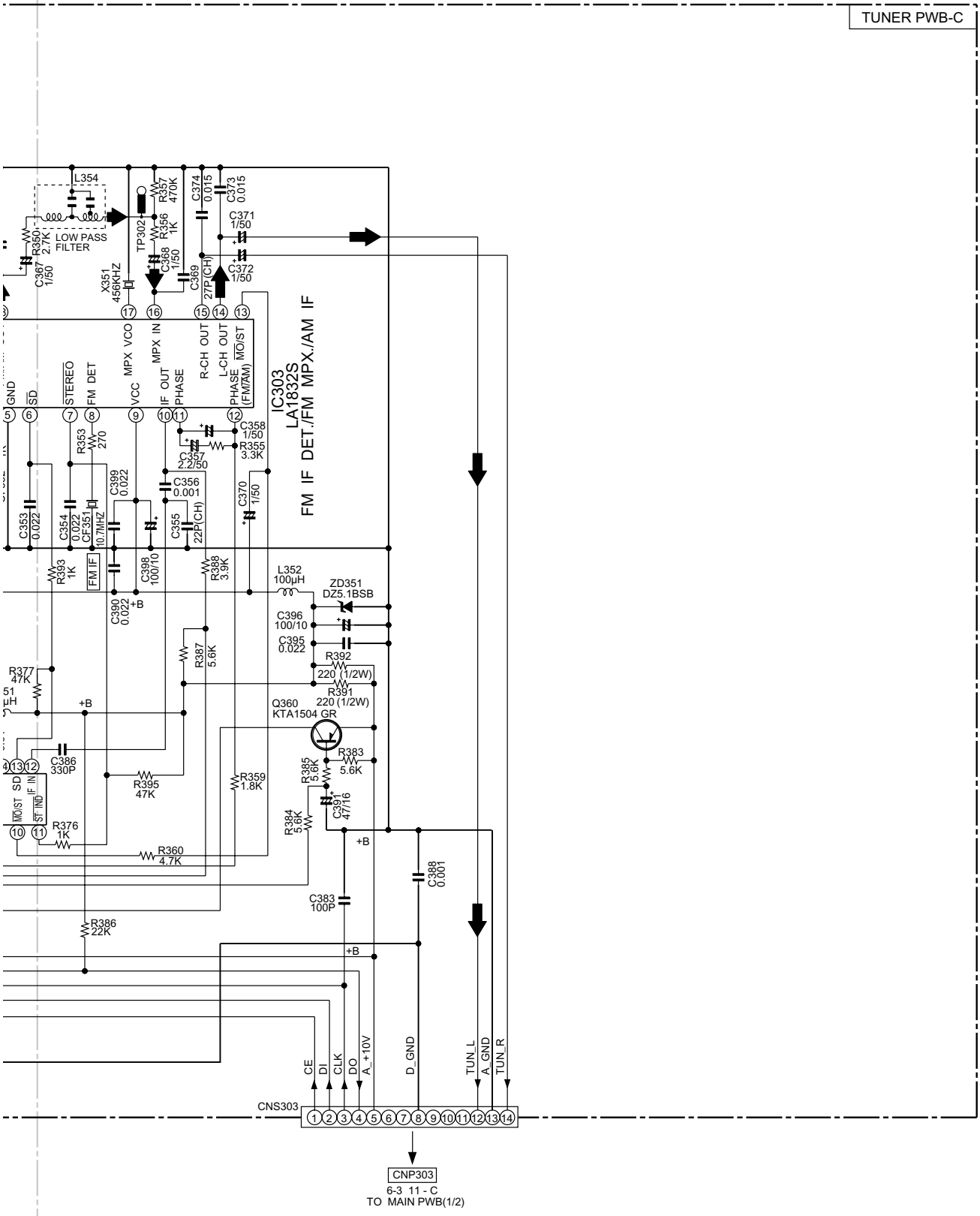
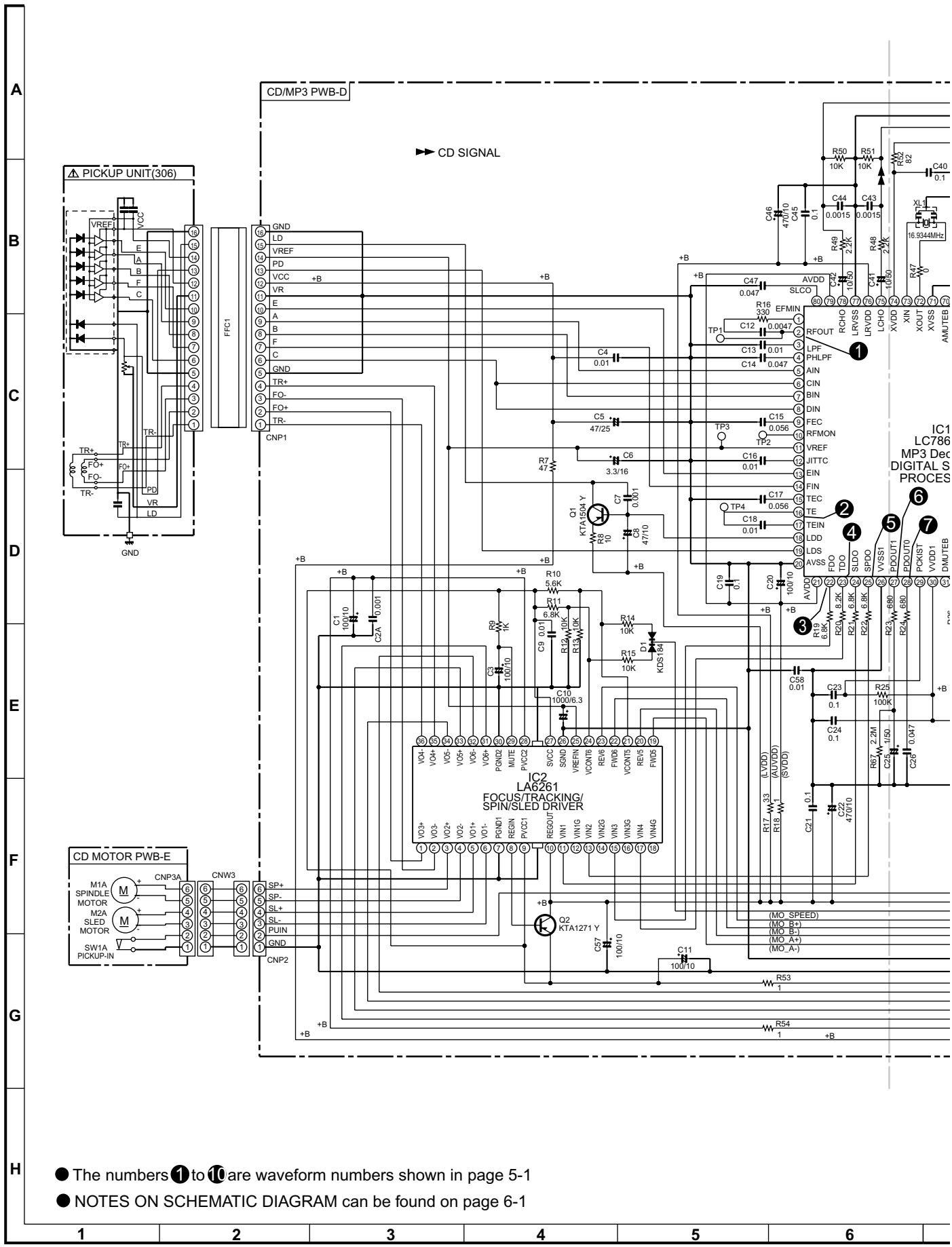


Figure 6-14 SCHEMATIC DIAGRAM (13/16)



	7	8	9	10	11	12

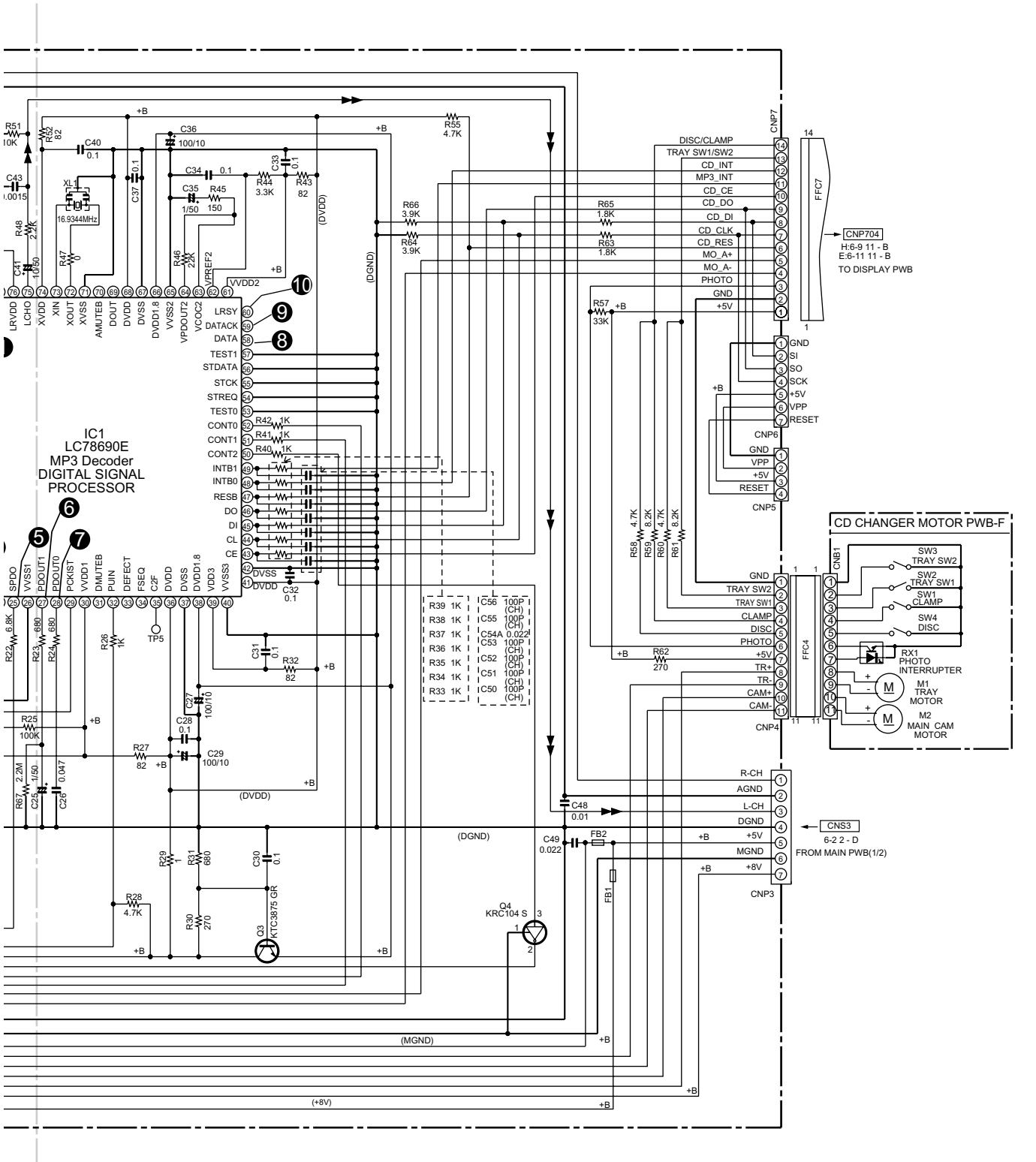
Figure 6-15 SCHEMATIC DIAGRAM (14/16)



● The numbers ❶ to ❿ are waveform numbers shown in page 5-1

● NOTES ON SCHEMATIC DIAGRAM can be found on page 6-1

Figure 6-16 SCHEMATIC DIAGRAM (15/16)



7	8	9	10	11	12

Figure 6-17 SCHEMATIC DIAGRAM (16/16)

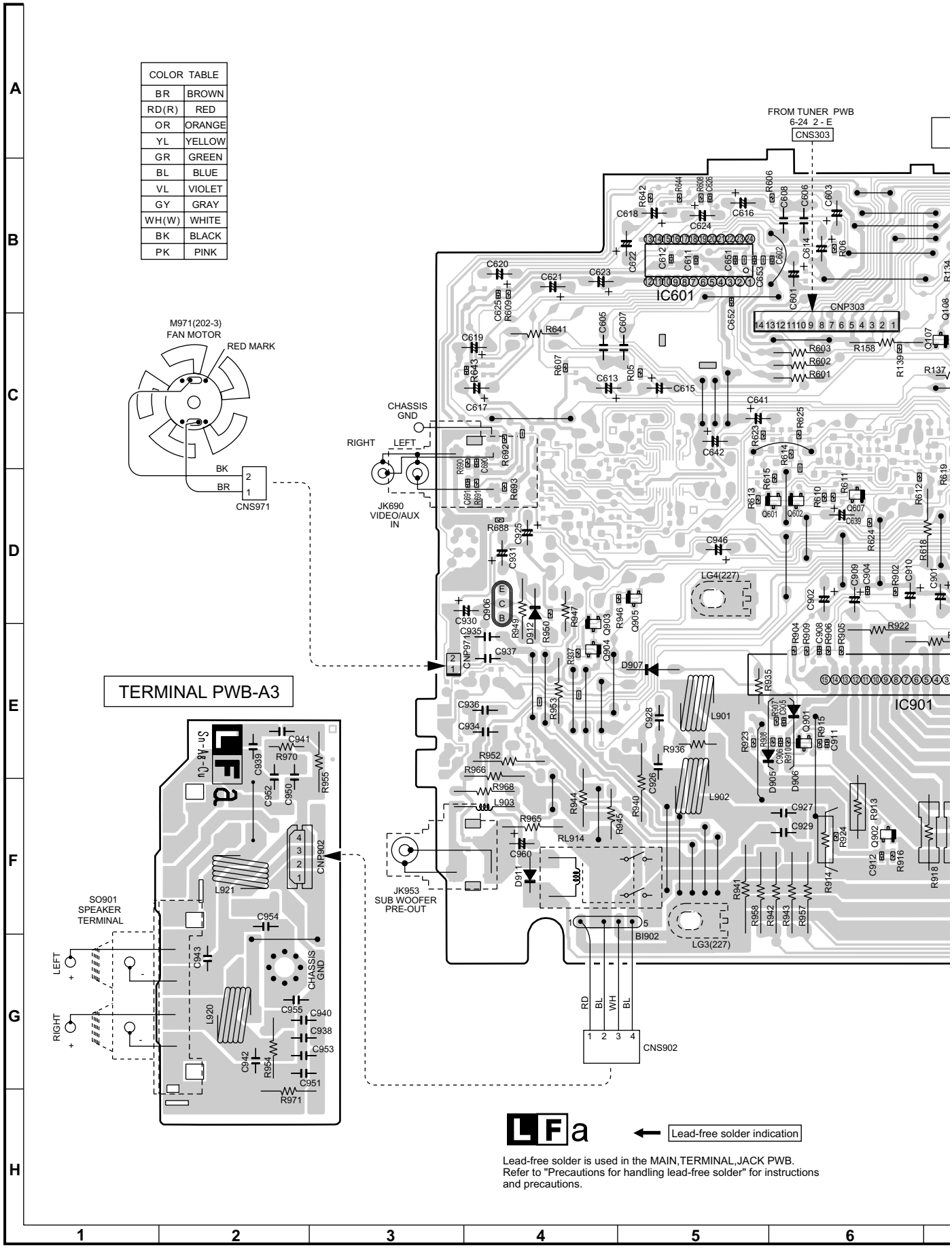
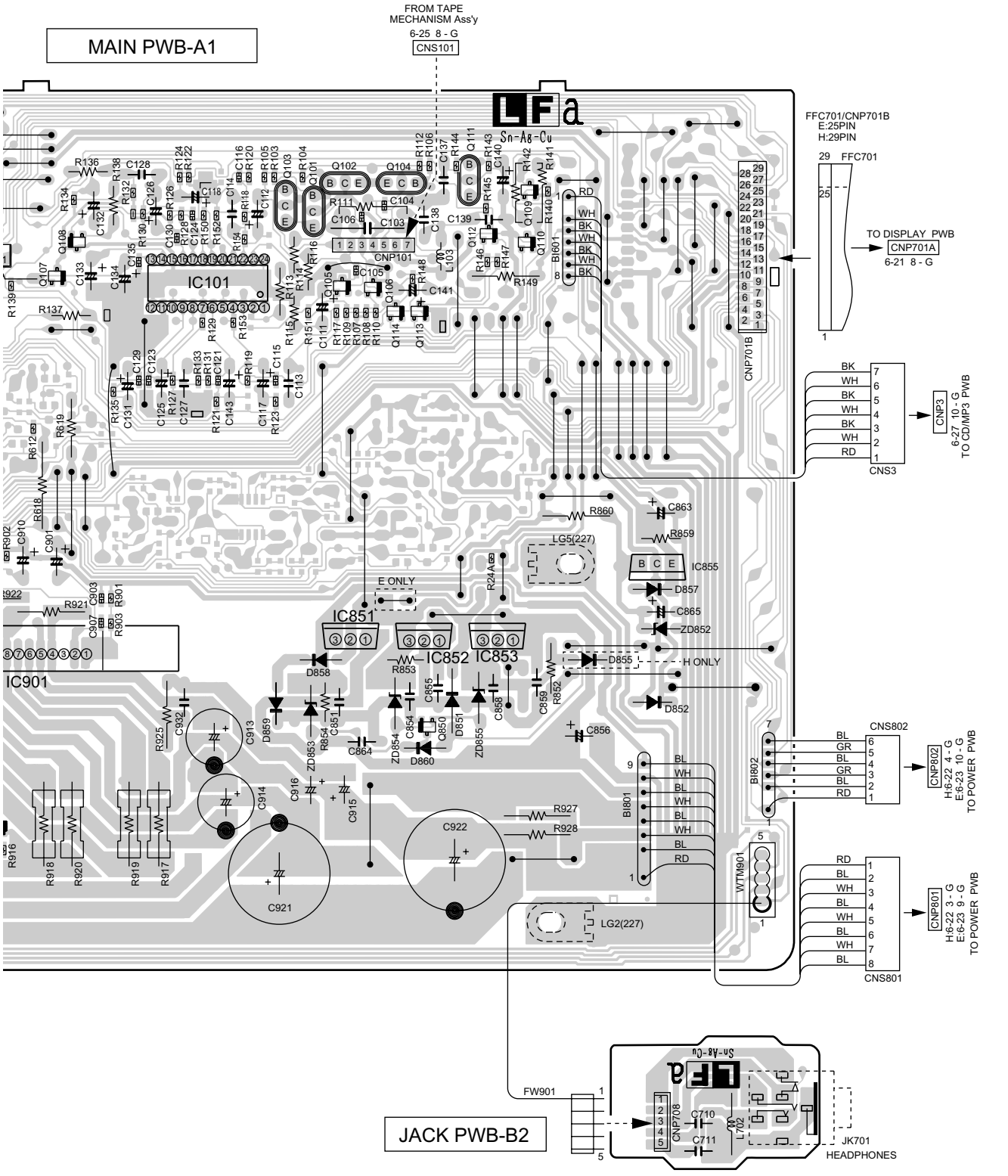
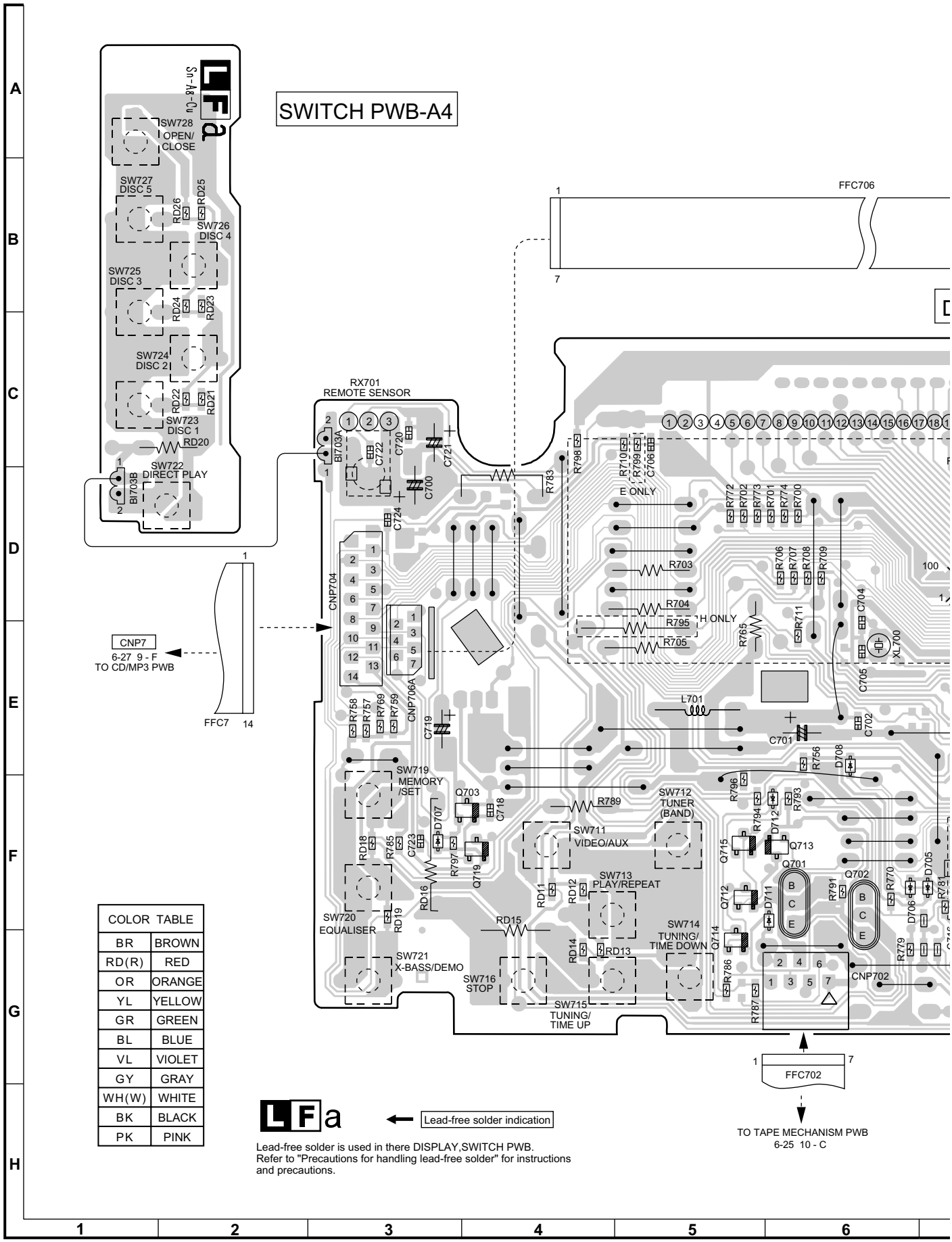


Figure 6-18 WIRING SIDE OF PWB (1/10)



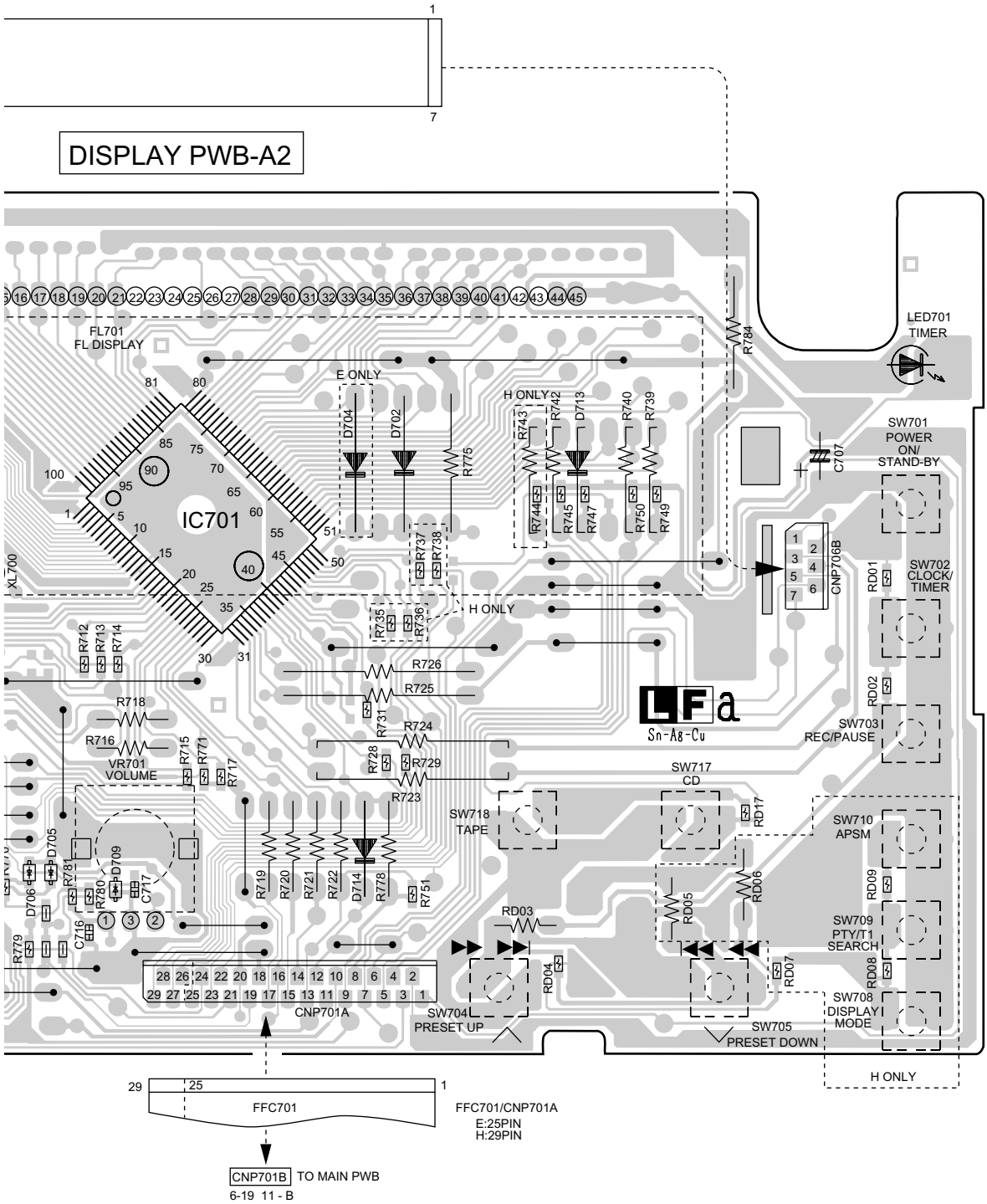
	7	8	9	10	11	12

Figure 6-19 WIRING SIDE OF PWB (2/10)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

Figure 6-20 WIRING SIDE OF PWB (3/10)



	7	8	9	10	11	12

Figure 6-21 WIRING SIDE OF PWB (4/10)

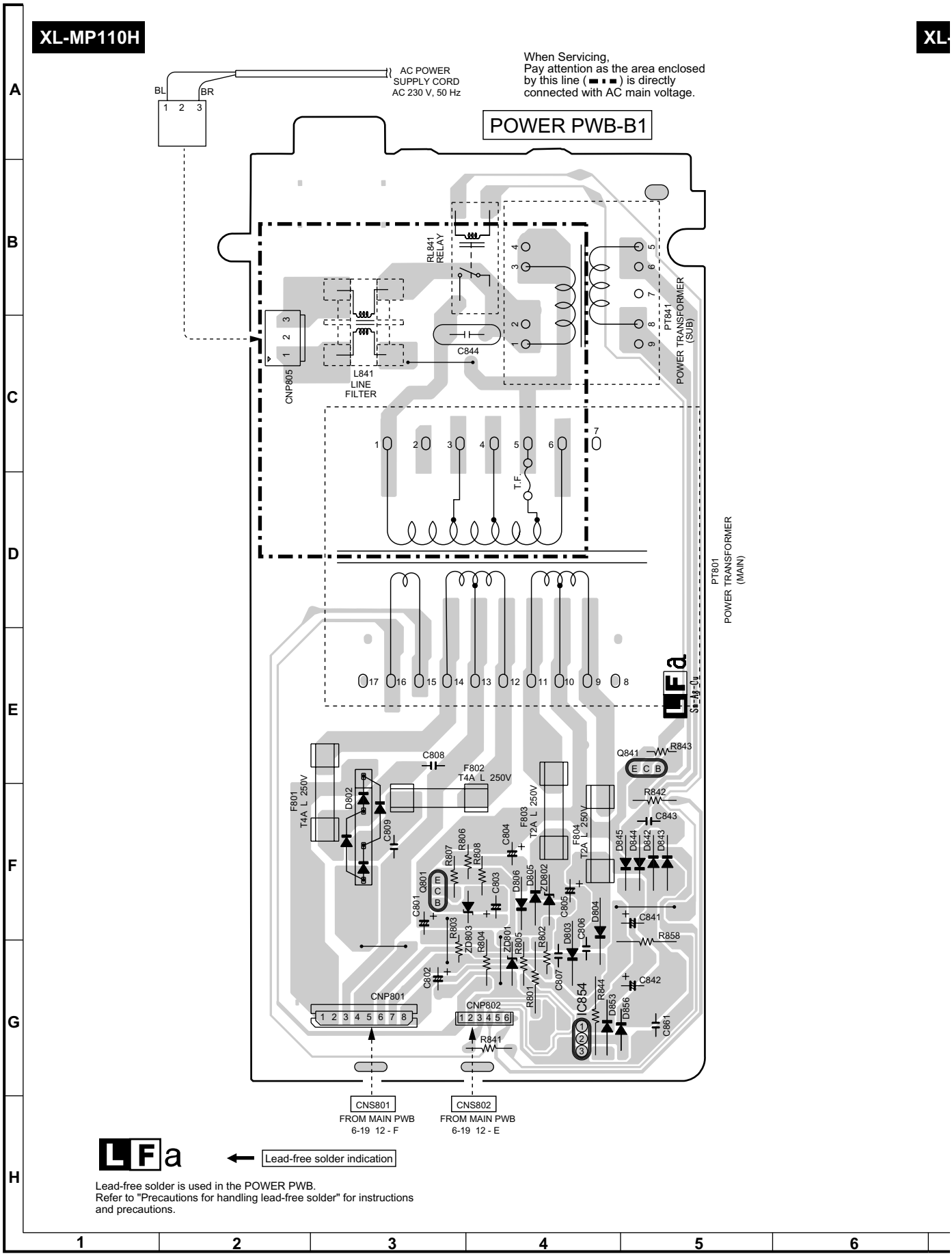
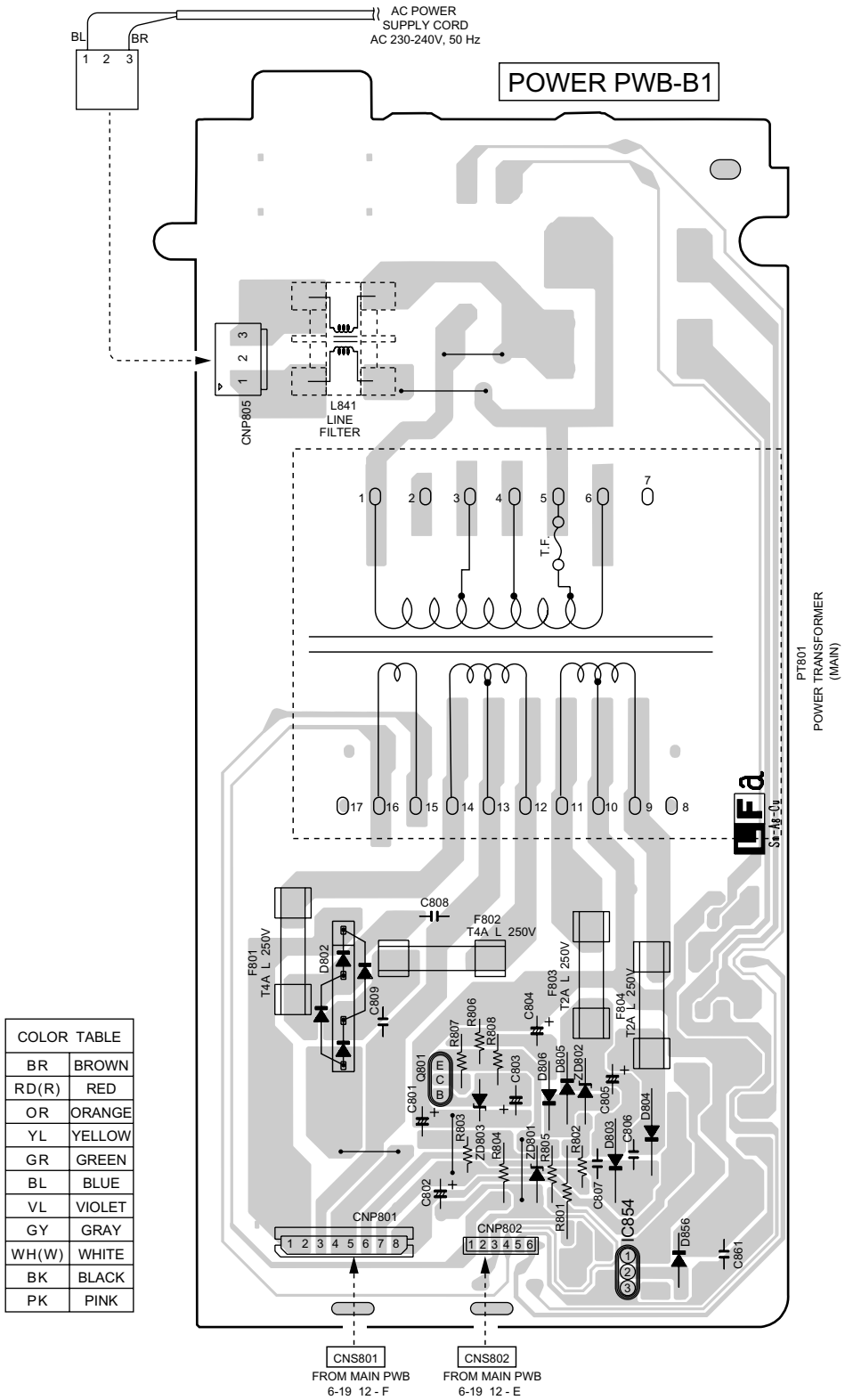


Figure 6-22 WIRING SIDE OF PWB (5/10)

XL-MP110E



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

	7	8	9	10	11	12

Figure 6-23 WIRING SIDE OF PWB (6/10)

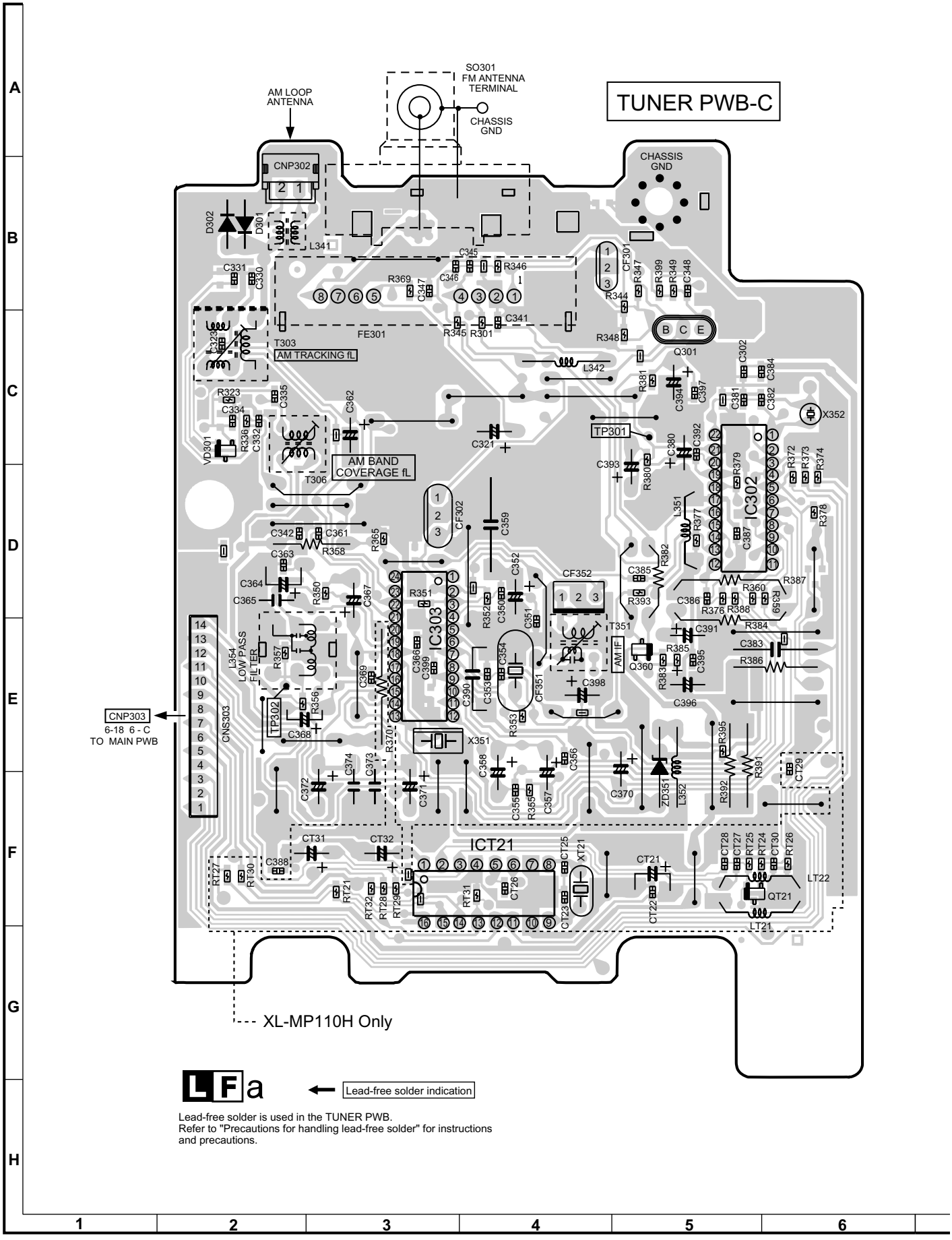
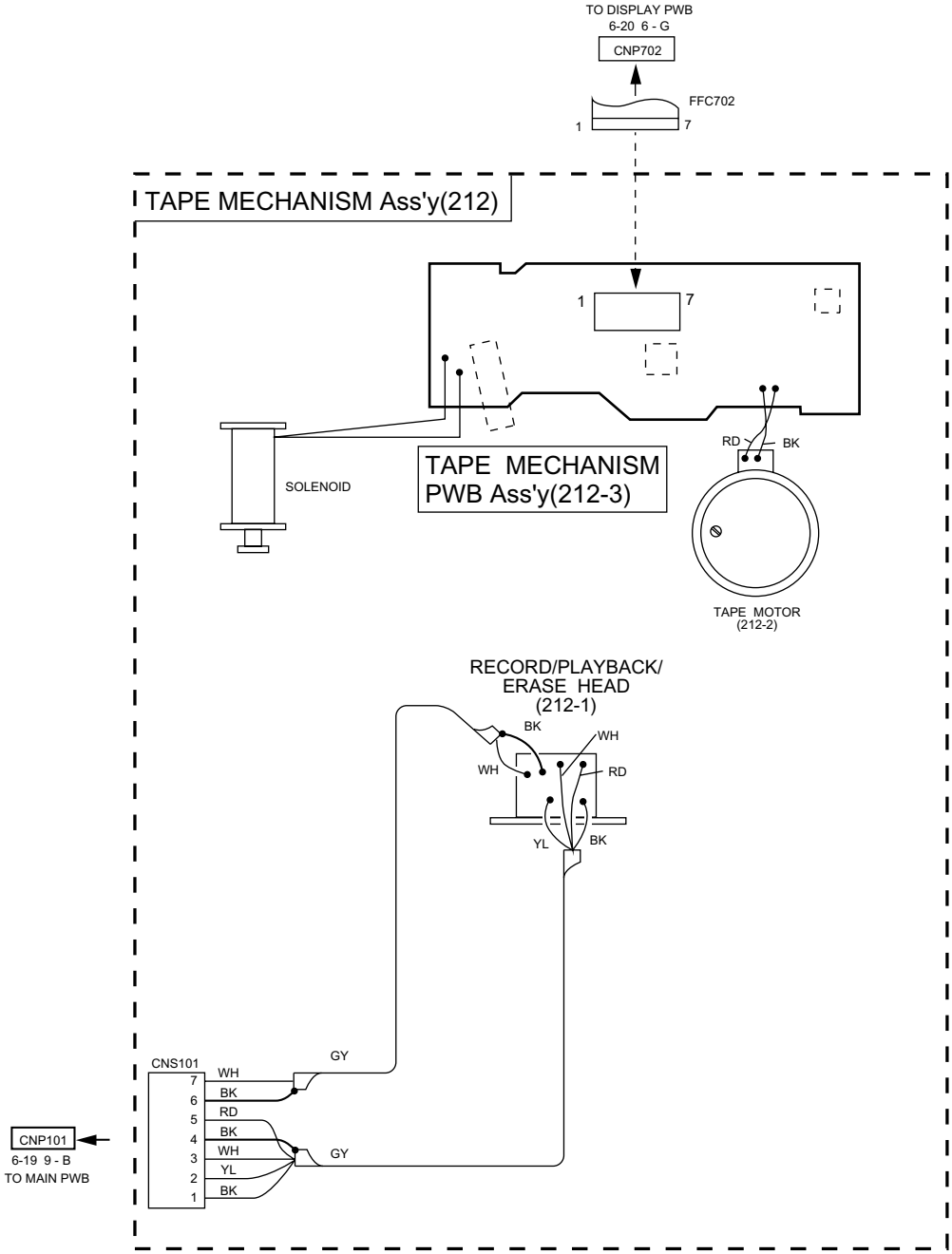
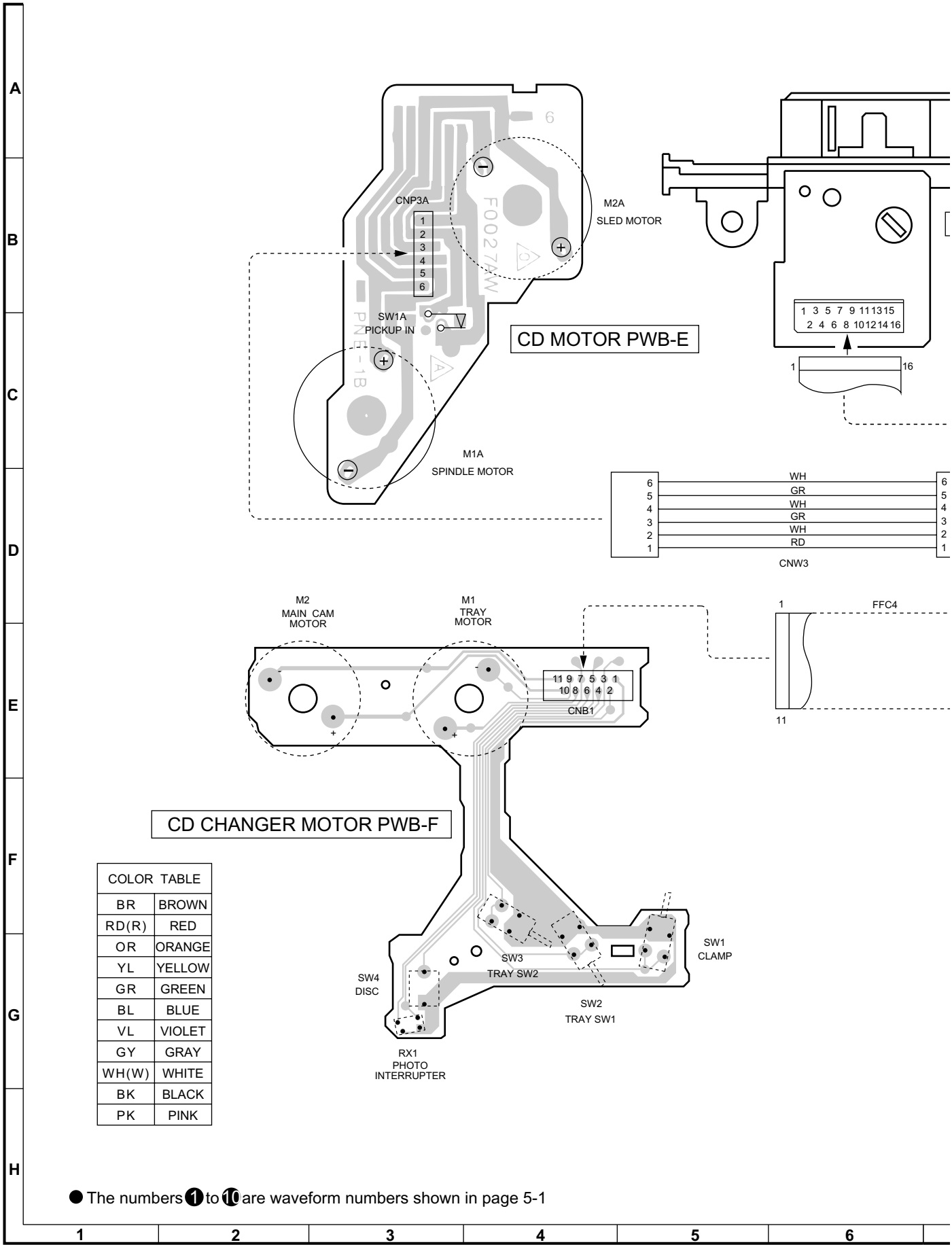


Figure 6-24 WIRING SIDE OF PWB (7/10)



	7	8	9	10	11	12

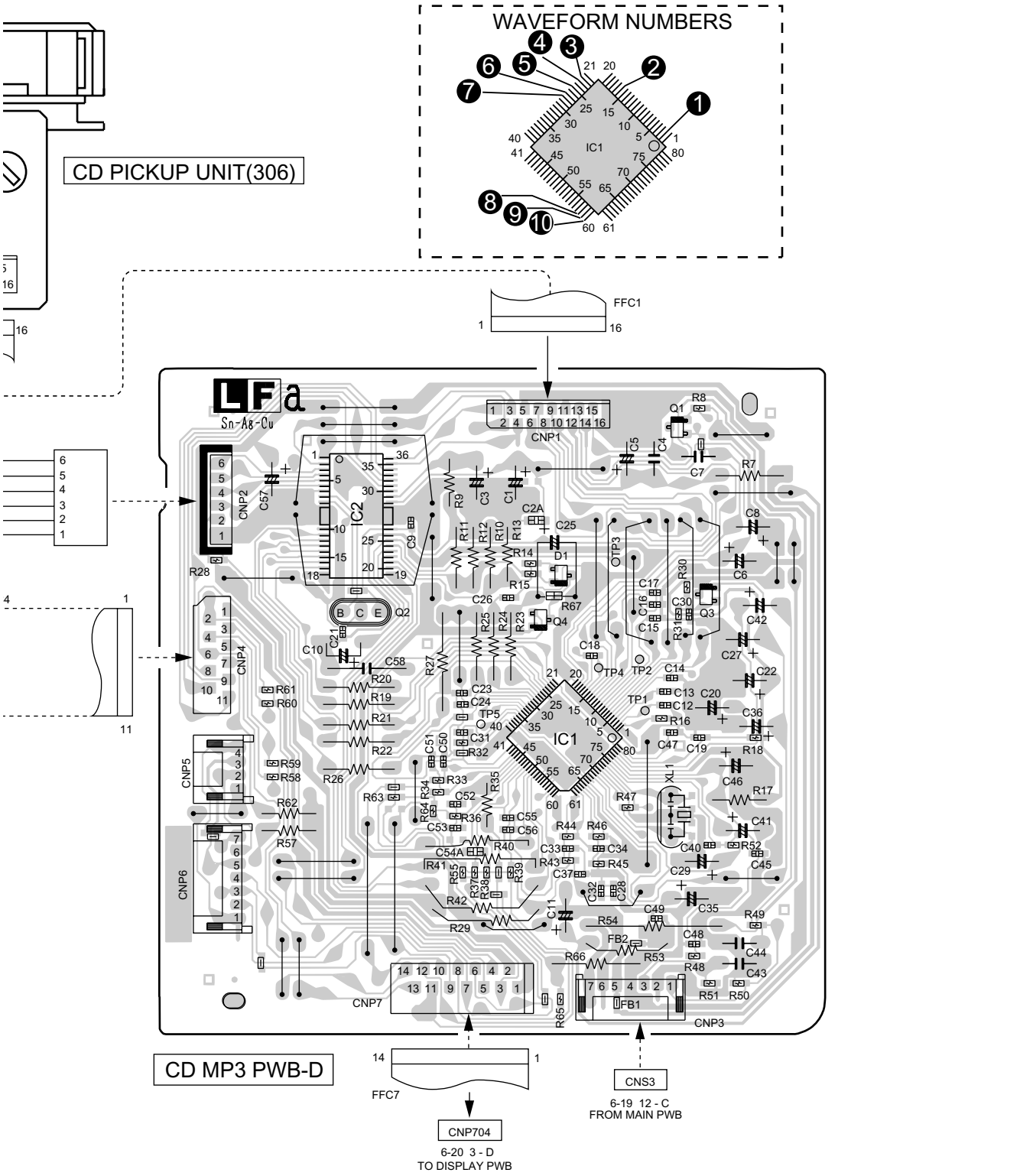
Figure 6-25 WIRING SIDE OF PWB (8/10)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

● The numbers ❶ to ❿ are waveform numbers shown in page 5-1

Figure 6-26 WIRING SIDE OF PWB (9/10)



	7	8	9	10	11	12

Figure 6-27 WIRING SIDE OF PWB (10/10)

CHAPTER 7. FLOWCHART

[1] TROUBLESHOOTING

1. When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

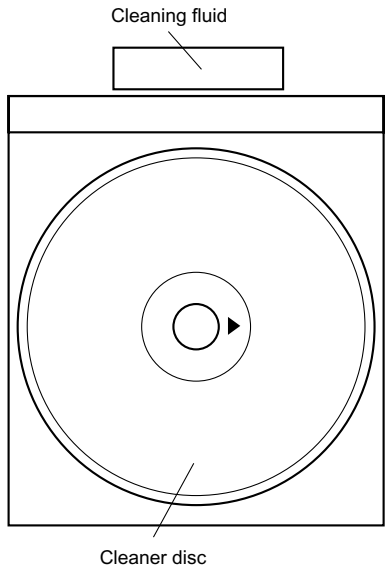
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down,then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it still play continuously, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.

2. When a CD cannot be played

2.1. "E-CD01" is displayed.

1) Check the power to IC1 (LC78690E), the presence of the clock signal (16.9344 MHz) and the status of the RESB terminal (pin 47 on IC1).
2) Does the pickup move to the PICKUP-IN Switch (SW1A) position ?

   If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2.2. Pressing the CD operation key is accepted, but playback does not occur.

1) Focus-HF system check
2) Tracking system check
3) Spin system check
4) PLL system check
5) Others

(1) Focus-HF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the Tray1 CD Eject Button without inserting a disc, and try starting the playback operation.

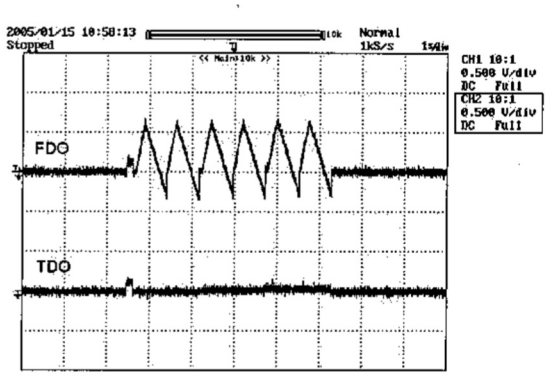


Figure 1

1. Does the pickup move to the PICKUP-IN Switch (SW1A) position ?
   - No → Sled motor (M2A).
   - Yes ↓

2. Does the focus (lens) move up and down ? (Waveform drawing Figure 1)
   - No → Check the focus peripheral circuit.
   - Yes ↓

3. Is the laser lit ?
   - No → Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓

4. Is the turntable rotating ?
   - No → Spindle motor (M1A).

When a disc is loaded, start playback operation.

1. Is focus servo activated ? (Waveform drawing Figure 2)
   - No → Pins 8~11, 14 and 18,19 on IC1 Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓

2. Is the HF waveform normal ? (Waveform drawing Figure 3)
   - No → If the level is not normal.

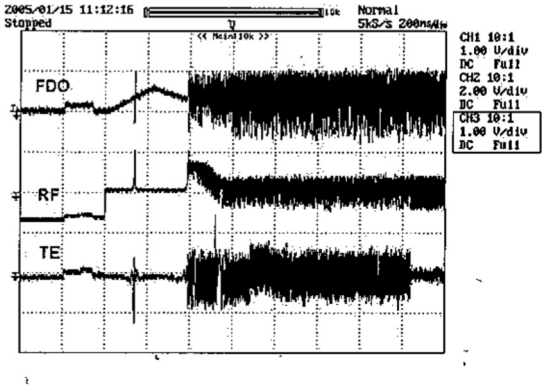


Figure 2

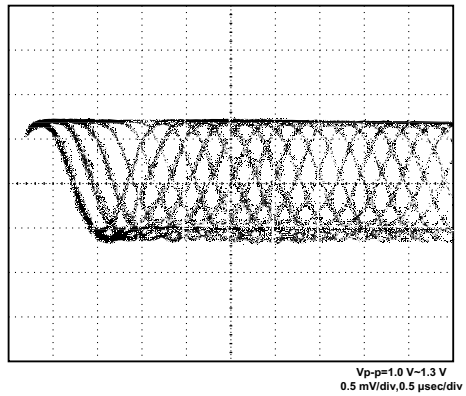


Figure 3

(2) Focus-HF system check.

Check the TE waveform at pin 16 on IC1.

If the waveform shown in Figure 4 appears and soon after NO DISC appears ?

Yes → The tracking servo is not activated.
Check the peripheral circuits at pins 15, 16 and 23 on IC1, and FFC1.

No ↓

"Initialization" is possible, but play is not possible ?

Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found.
Check the around pin 23 on IC1.

No ↓

"Initialization" is not possible. → Data cannot be read. Check the VCO-PLL (Pins 1,2,26,29 and 80 on IC1) system.

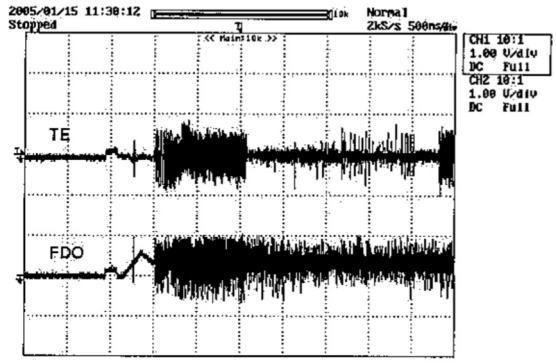


Figure 4

(3) Spin system check.

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

↓

1. The turntable rotates a little ?
(Waveform drawing Figure 5)

Yes → The spin driver circuit is OK.

No ↓

2. The turntable doesn't rotate. → Check around pin 25 on IC1, pins 3 and 4 on IC2, and CNP2.

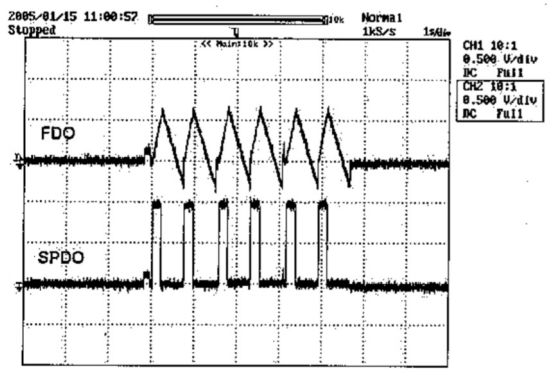


Figure 5

(4) PLL system check.

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDOUT waveform. (Figure 6)

↓

Check around Pins 1,2,26,29 and 80 on IC1.

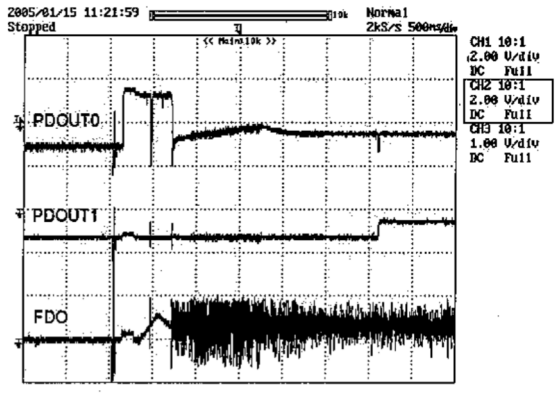


Figure 6

(5) Others.

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has drop-outs.

Is pin 35 (C2F) on IC1 "L" ?

No → There are too many error flags on a damaged disc which makes error correction impossible.

↓ Yes

If OK, Check the unit.

↓

Check again using a known good disc.

CHAPTER 8. OTHERS

[1] FUNCTION TABLE OF IC

IC1 VHILC78690E-1 : MP3 Decoder/Digital Signal Processor (LC78690E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting In Reset	Function	
1	EFMIN	Input	INPUT	RF signal input pin.	
2	RFOUT	Output	UNSTABLE	RF signal output pin.	
3	LPF	Output	UNSTABLE	RF signal DC level detection. LPF capacitor connection pin.	
4	PHLPF	Output	UNSTABLE	LPF capacitor pin for detection problem.	
5	AIN	Input	INPUT	A signal input pin.	
6	CIN	Input	INPUT	C signal input pin.	
7	BIN	Input	INPUT	B signal input pin.	
8	DIN	Input	INPUT	D signal input pin.	
9	FEC	Output	UNSTABLE	FE signal LPF capacitor connection pin.	
10*	RFMON	Output	UNSTABLE	Built in analog signal for monitoring LSI pin.	
11	VREF	Output	AVDD/2	VREF voltage output pin.	
12	JITTC	Output	UNSTABLE	Jitter detection capacitor connection pin.	
13	EIN	Input	INPUT	E signal input pin.	
14	FIN	Input	INPUT	F signal input pin.	
15	TEC	Output	UNSTABLE	TE signal LPF capacitor connection pin.	
16	TE	Output	UNSTABLE	TE signal output pin.	
17	TEIN	Input	INPUT	TES signal generation TE signal input pin.	
18	LDD	Output	UNSTABLE	Laser power control signal output pin.	
19	LDS	Input	INPUT	Laser power control signal input pin.	
20	AVSS	-	-	Analog GND pin. This pin must always be connected to 0V.	
21	AVDD	-	-	Analog power supply pin.	
22	FDO	Output	AVDD/2	Focus control output pin. D/A converter output.	
23	TDO	Output	AVDD/2	Tracking control output pin. D/A converter output.	
24	SLDO	Output	AVDD/2	SLED control output pin. D/A converter output	
25	SPDO	Output	AVDD/2	SPINDLE control output pin. D/A converter output.	
26	VVSS1	-	-	For use by the EFM PLL Circuit	Built-in VCO GND pin. This pin must always be connected to 0V.
27	PDOUT1	Output	UNSTABLE		Phase comparison output pin 1 to control built in VCO.
28	PDOUT0	Output	UNSTABLE		Phase comparison output pin 0 to control built in VCO.
29	PCKIST	Input	INPUT		Resistor connection pin to set current for PDOUT 0 and 1 output.
30	VVDD1	-	-		Built_in VCO power supply pin 1.
31*	DMUTEB	Output	L	DMUTEB output pin.	
32	PUIN	Input/Output	INPUT	PUIN input pin. (built-in pull-up resistor)	
33*	DEFECT	Output	L	DEFECT signal output pin.	
34*	FSEQ	Output	L	Detected sync signal output. This signal is high when the sync signal detected from the EFM signal and the internally generated sync signal agree.	
35*	C2F	Output	L	C2 error flag monitor output pin.	
36	DVDD	-	-	Digital power supply pin.	
37	DVSS	-	-	Digital GND pin. This pin must always be connected to 0V.	
38	DVDD1.8	Output	H	Supply voltage connect to capacitor for digital circuit.	
39	VVDD3	-	-	Built-in VCO power supply pin 3.	
40	VVSS3	-	-	Built-in VCO GND pin 3. This pin must always be connected to 0V.	
41	DVDD	-	-	Digital power supply pin.	
42	DVSS	-	-	Digital GND pin. This pin must always be connected to 0V.	
43	CE	Input	INPUT	Micro-Computer Interface	Chip enable signal input pin.
44	CL	Input	INPUT		Data transfer clock input pin.
45	DIN	Input	INPUT		Data input pin.
46	DO	Output	H		Data output pin. (TRI-State Output)
47	RESB	Input	-	Reset input pin for LSI. This pin must set to low briefly after power is applied.	
48	INTB0	Output	H	Interrupt signal output pin 0. (SERVO Section)	
49	INTB1	Output	H	Interrupt signal output pin 1. (DECODER Section)	
50	CONT2	Input/Output	INPUT	General Purpose I/O pin 2	Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0V, or set up as output pin ports and left open.

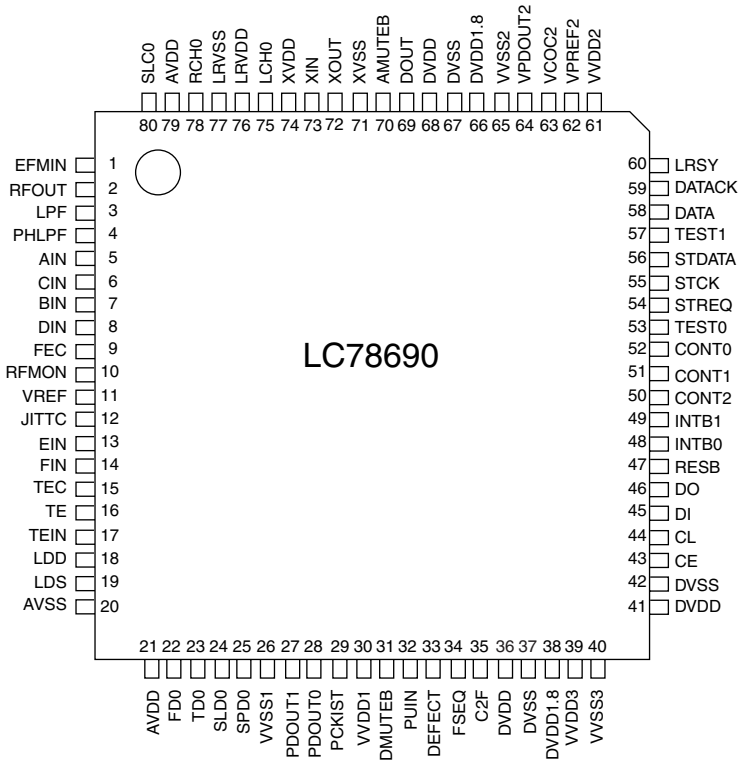
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1 VHILC78690E-1 : MP3 Decoder/Digital Signal Processor (LC78690E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting In Reset	Function	
51	CONT1	Input/Output	INPUT	General Purpose I/O pin 1	Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0V, or set up as output pin ports and left open.
52	CONT0	Input/Output	INPUT	General Purpose I/O pin 0	
53	TEST0	Input	L	Test input pin 1. This pin must always be connected to 0V.	
54	STREQ	Input/Output	INPUT	Stream data request output pin.	
55	STCK	Input/Output	INPUT	Stream data bit clock usage input pin.	
56	STDATA	Input/Output	INPUT	Stream data input pin.	
57	TEST1	Input	L	Test input pin 0. This pin must always be connected to 0V.	
58*	DATA	Output	L	Left/Right clock output pin.	
59*	DATACK	Output	L	Bit clock output pin.	
60*	LRSY	Output	L	Left/Right channel data output pin.	
61	VVDD2	-	-	For use by the EFM PLL Circuit	Built-in VCO power supply pin 2.
62	VPREF2	Input	INPUT		Built-in VCO control oscillator range setting input pin.
63	VCOC2	Input	INPUT		Built-in VCO control voltage setting input pin.
64	VPDOUT2	Output	UNSTABLE		Built-in VCO control output pin 2.
65	VVSS2	-	-		Built-in VCO GND pin. This pin must always be connected to 0V.
66	DVDD1.8	Output	H	Supply voltage connect to condenser for digital circuit.	
67	DVSS	-	-	Digital GND pin. This pin must always be connected to 0V.	
68	DVDD	-	-	Digital power supply pin.	
69*	DOUT	Output	L	Digital output pin. EIAJ format	
70*	AMUTEB	Output	L	AMUTEB output pin.	
71	XVSS	-	-	Digital GND pin. This pin must always be connected to 0V	
72	XOUT	Output	OSCILLATING	Crystal oscillator	Connections for a 16.9344 MHZ oscillator element.
73	XIN	Input	OSCILLATING		
74	XVDD	-	-	Digital power supply pin.	
75	LCHO	Output	LRVDD/2	D/A converter	Left channel output supply pin.
76	LRVDD	-	-		LR channel power supply pin.
77	LRVSS	-	-		LR channel GND pin. This pin must always be connected to 0V.
78	RCHO	Output	LRVDD/2		Right channel input supply pin.
79	AVDD	-	-	Analog power supply pin.	
80	SLCO	Output	UNSTABLE	Slice level control output pin.	

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1 VHILC78690E-1 : MP3 Decoder/Digital Signal Processor(LC78690E)



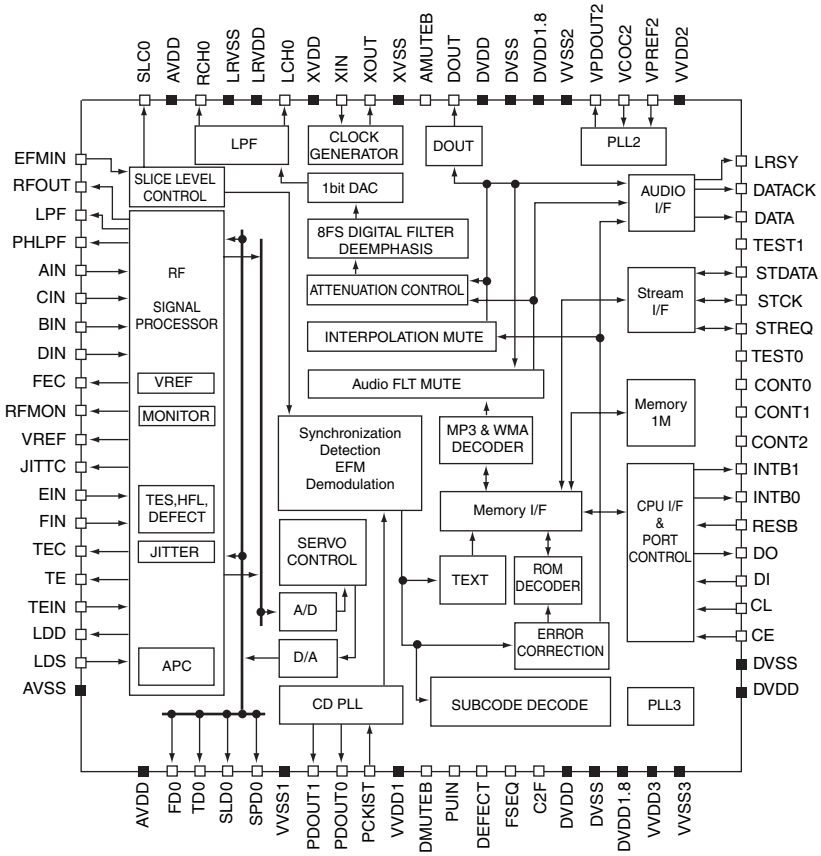


Figure 1 BLOCK DIAGRAM OF IC

IC2 VHILA6261//-1: Focus/Tracking/Spin/Sled Driver (LA6261)

Pin No.	Terminal Name	Function
1	VO3+	BTL Output pin (+) for channel 3.
2	VO3-	BTL Output pin (-) for channel 3.
3	VO2+	BTL Output pin (+) for channel 2.
4	VO2-	BTL Output pin (-) for channel 2.
5	VO1+	BTL Output pin (+) for channel 1.
6	VO1-	BTL Output pin (-) for channel 1.
7	PGND1	Power GND for channels 1,2,3 and 4 (BTL).
8	REGIN	Regulator pin (External PNP base).
9	PVCC1	Power for channels 1,2,3 and 4 (BTL). (SVCC short-crircuited)
10	REGOUT	Regulator pin (External PNP collector).
11	VIN1	Input pin for channel 1
12*	VIN1G	Input pin for channel 1 (for gain control)
13	VIN2	Input pin for channel 2
14*	VIN2G	Input pin for channel 2 (for gain control)
15	VIN3	Input pin for channel 3
16*	VIN3G	Input pin for channel 3 (for gain control)
17	VIN4	Input pin for channel 4
18*	VIN4G	Input pin for channel 4 (for gain control)
19	FWD5	CH5 Output change pin (FWD). Logic input for bridge.
20	REV5	CH5 Output change pin (REV). Logic input for bridge.
21	VCONT5	Input pin for CH5 output voltage control
22	FWD6	CH6 Output change pin (FWD). Logic input for bridge.
23	REV6	CH6 Output change pin (REV). Logic input for bridge.
24	VCONT6	Input pin for CH5 output voltage control.
25	VREFIN	Reference voltage input pin.
26	SGND	Signal system GND
27	SVCC	Signal system power (PVCC1 short - circuited)
28	PVCC2	Power for channel 5 and 6 (H bridge).
29	MUTE	Input pin for BTL mute.
30	PGND2	Power GND for channels 5 and 6 (H bridge).
31	VO6+	H bridge Output pin (+) for channel 6.
32	VO6-	H bridge Output pin (-) for channel 6.
33	VO5+	H bridge Output pin (+) for channel 5.
34	VO5-	H bridge Output pin (-) for channel 5.
35	VO4+	BTL Output pin (+) for channel 4.
36	VO4-	BTL Output pin (-) for channel 4.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

* Set power system GND to the minimum potential together with SGND

* Short-circuit three pins of power system SVSS and PVCC1 externally before use.

IC2 VHILA6261//-1: Focus/Tracking/Spin/Sled Driver (LA6261)

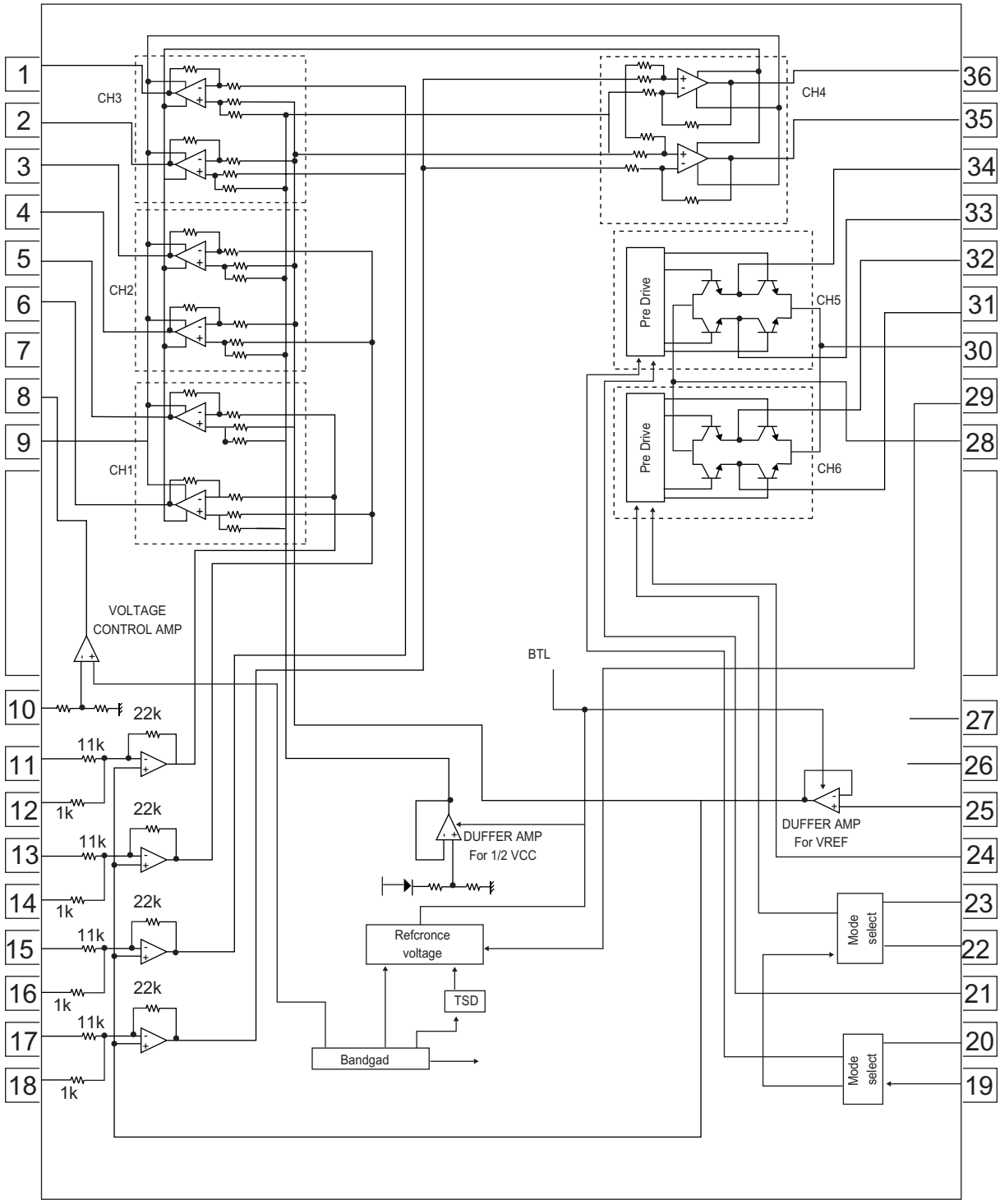


Figure 2 BLOCK DIAGRAM OF IC

IC601 VHiLC75341/-1: Audio Processor (LC75341)

Pin No.	Terminal Name	Function
1	DI	Serial data and clock input pin for control.
2	CE	Chip enable pin. Data written into an internal latch in a timing of "H" to "L". Each analog switch is activated. Data transfer enabled at "H" level.
3	VSS	Ground pin.
4	LOUT	Bass band filter comprising capacitor and resistor connection pin and bass/treble output pin.
5	LBASS	Bass band filter comprising capacitor and resistor connection pin.
6	LTRE	Treble band filter comprising capacitor and resistor connection pin.
7	LIN	Volume + equaliser output pin.
8	LSEL0	Input selector output pin.
9-12	L4-1	Input signal pin.

Pin No.	Terminal Name	Function
13-16	R1-4	Input signal pin.
17	RSEL0	Input selector output pin.
18	RIN	Volume + equaliser output pin
19	RTRE	Treble band filter comprising capacitor and resistor connection pin.
20	RBASS	Bass band filter comprising capacitor and resistor connection pin.
21	ROUT	Bass band filter comprising capacitor and resistor connection pin and bass/ treble output pin.
22	VREF	0.5x VDD voltage generation block for analog ground. Capacitor of several 10µF to be connected between VREF and AWSS (VSS) as a countermeasure against power ripple.
23	VDD	Supply pin
24	CLK	Serial data and clock input pin for control.

IC601 VHiLC75341/-1: Audio Processor (LC75341)

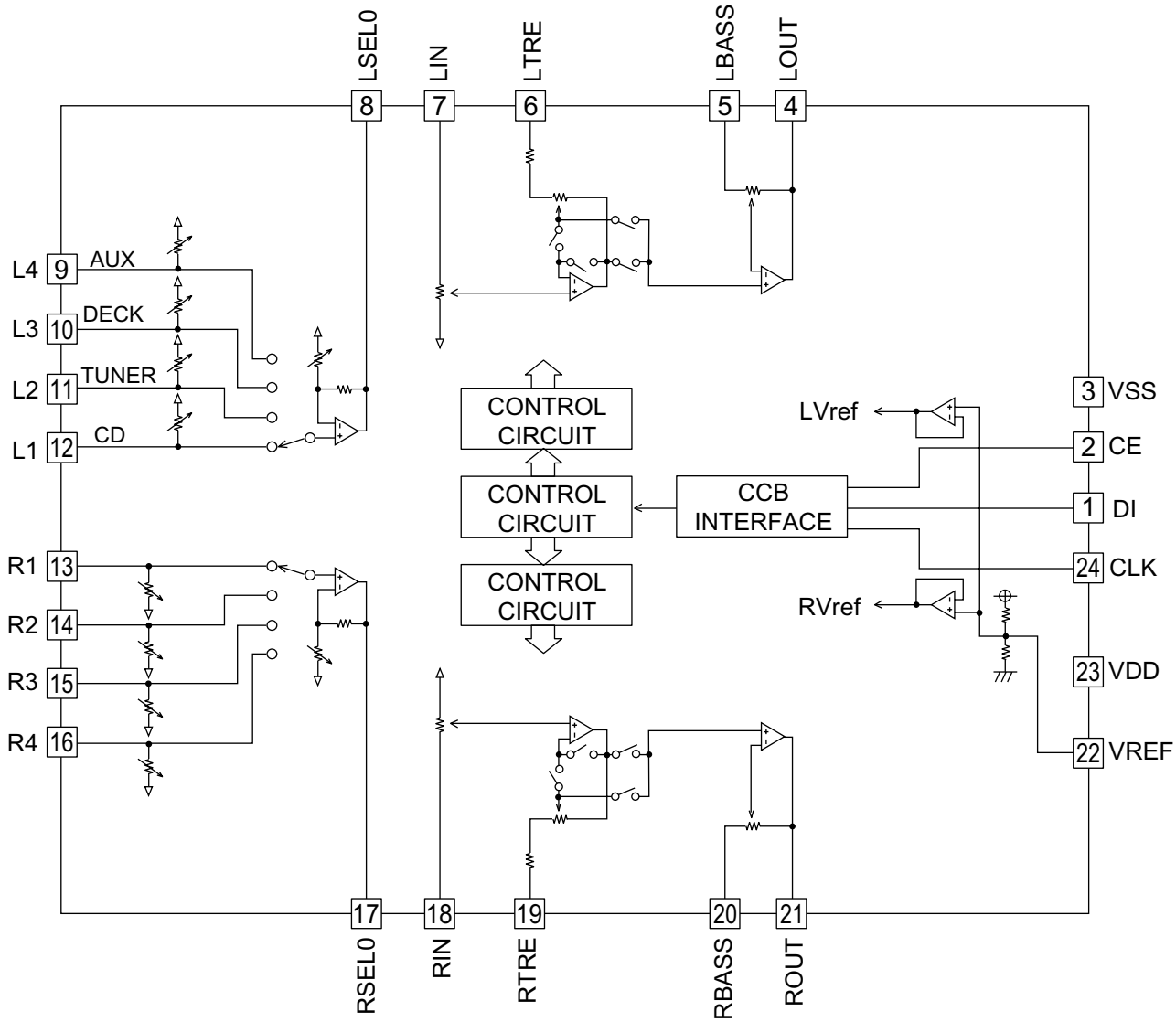


Figure 3 BLOCK DIAGRAM OF IC

IC701 RH-iXA058AWZZ: System Microcomputer (IXA058AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	AVDD	AVDD	-	A/D ANALOG POWER SUPPLY
2	P10/ANI0	KEY0	Input	KEY0 INPUT
3	P11/ANI1	KEY1	Input	KEY1 INPUT
4	P12/ANI2	KEY2	Input	KEY2 INPUT
5	P13/ANI3	VOL_JOG	Input	VOLUME JOG INPUT
6	P14/ANI4	PROTECT	Input	POWER ABNORMAL DETECT
7	P15/ANI5	T_FP SW	Input	TAPE FOOL PROOF A&B SW
8	P16/ANI6	TUN_SM (SPAN)	Input	TUNER SIGNAL METER INPUT (H) (SPAN SELECTOR INPUT - W)
9	P17/ANI7	T_RUN PULS	Input	TAPE1&2 RUN PULSE INPUT
10	P00/ANI8	DISC&CLAMP SW	Input	CD MECHA DISC&CLAMP SW
11	P01/ANI9	TRAY SW1&2	Input	CD MECHA TRAY SW1&2
12	P02/ANI10	CD-INTB	Input	CD SERVO INTERRUPTION
13	P03/ANI11	MP3-INTB	Input	MP3 DECORDER INTERRUPTION
14	AVSS	AVSS	—	A/D ANALOG GND
15	VSS1	VSS	—	GROUND
16	X1	XIN	Input	MAIN CLOCK INPUT
17	X2	XOUT	—	MAIN CLOCK OUTPUT 4.19MHz
18	VDD1	VDD	—	POWER SUPPLY 5V
19	IC(VPP)	VPP	—	GROUND
20	P20/TIO0	CD CE	Output	CD DSP CHIP ENABLE
21	P25/SI0/RXD0	CD_DO	Input	CD DSP DATA INPUT
22	P26/SO0/TXD0	CD_DI	Output	CD DSP COMMAND
23	P27/SCK0/ASCK0	CD_CLK	Output	CD DSP CLOCK
24	P67/INTP2	P-IN	Input	POWER FAILURE DETECT (A/C SIGNAL)
25	P66/TIO51	PHOTO	Input	CD MECHA MOTOR ROTATION
26	P65/INTP1	SP_DET	Input	SP ABNORMAL DETECT L:PROTECT
27	P64/INTP0	REMOCON	Input	REMOCON DECODER INPUT
28	P63/TIO50	CE	Output	TUNER/VOL CHIP ENABLE
29	P62/SCK1	CLK	Output	TUNER/VOL CLOCK
30	P61/SO1	DI	Output	TUNER/VOL COMMAND
31	P60/SI1	DO	Input	TUNER DATA INPUT
32	P57/SCK2	CD_RESOUT	Output	CD DSP RESET
33	P56/SO2	MOT_A+	Output	CHANGER CAM MOTOR(+)
34	P55/SI2	MOT_A-	Output	CHANGER CAM MOTOR(-)
35	P54	TIMER LED	Output	TIMER LED CONTROL L:ON
36	P53	S MUTE	Output	SYSTEM MUTE CONTROL H:MUTE ON
37	P52	T_SOL_B	Output	TAPE2 SOLENOID CONTROL L:SOLENOID ON
38	P51	T_MOTOR	Output	TAPE MOTOR CONTROL L:MOTOR ON
39*	P50	NO USE	Output	OPEN
40	VSS0	VSS	—	GROUND
41	VDD0	VDD	—	POWER SUPPLY 5V
42	RESET	RESET	Input	SYSTEM MICOM RESET INPUT L:RESET
43*	P47	ILLU_LED	Output	FL EDGE LIGHT CONTROL H:LED
44*	P46	NS_SW2	Output	SOUND MODE SW2 CONTROL
45*	P45	NS_SW1	Output	SOUND MODE SW1 CONTROL
46(H) 46*(E)	P44	RDS_RST	Output	RDS RAM RESET (H ONLY)
47(H) 47*(E)	P43	RDS_READY	Input	RDS READY (H ONLY)
48(H) 48*(E)	P42	RDS_RDDA	Input	RDS DATA INPUT (H ONLY)
49(H) 49*(E)	P41	RDS RDCL	Output	RDS CLOCK (H ONLY)
50	P40	DIST	Input	DESTINATION INPUT
51	P107/FIP47	T_BIAS	Output	TAPE RECORD BIAS CONTROL H:BIAS CIRCUIT ON

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iXA058AWZZ: System Microcomputer (IXA058AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
52	P106/FIP46	T_REC/PLAY	Output	TAPE RECORD/PLAY CONTROL H:PLAY, L:RECORD
53*	P105/FIP45	NO USE	Output	OPEN
54	P104/FIP44	-20dBATT	Output	-20dB ATTENUATOR H:ATTENUATOR ON
55	P103/FIP43	SP_RLY	Output	SP RELAY CONTROL H:RELAY ON
56*	P102/FIP42	AC_RLY	Output	AC RELAY CONTROL
57*	P101/FIP41	NO USE	Output	OPEN
58*	P100/FIP40	NO USE	Output	OPEN
59*	P97/FIP39	NO USE	Output	OPEN
60*	P96/FIP38	NO USE	Output	OPEN
61*	P95/FIP37	NO USE	Output	OPEN
62*	P94/FIP36	NO USE	Output	OPEN
63*	P93/FIP35	NO USE	Output	OPEN
64*	P92/FIP34	NO USE	Output	OPEN
65*	P91/FIP33	NO USE	Output	OPEN
66*	P90/FIP32	NO USE	Output	OPEN
67*	P87/FIP31	NO USE	Output	OPEN
68	P86/FIP30	S20 (DIST1)	Output	FL SEGMENT DRIVER (DESTINATION OUTPUT)
69	P85/FIP29	S19 (DIST2)	Output	FL SEGMENT DRIVER (DESTINATION OUTPUT)
70	P84/FIP28	S18 (DIST3)	Output	FL SEGMENT DRIVER (DESTINATION OUTPUT)
71	P83/FIP27	S17 (DIST4)	Output	FL SEGMENT DRIVER (DESTINATION OUTPUT)
72	P82/FIP26	S16	Output	FL SEGMENT DRIVER
73	P81/FIP25	S15	Output	FL SEGMENT DRIVER
74	P80/FIP24	S14	Output	FL SEGMENT DRIVER
75	P77/FIP23	S13	Output	FL SEGMENT DRIVER
76	P76/FIP22	S12	Output	FL SEGMENT DRIVER
77	P75/FIP21	S11	Output	FL SEGMENT DRIVER
78	P74/FIP20	S10	Output	FL SEGMENT DRIVER
79	VDD2	VDD	—	POWER SUPPRY 5V
80	VLOAD	VLOAD	—	VLOAD 35V
81	P73/FIP19	S9	Output	FL SEGMENT DRIVER
82	P72/FIP18	S8	Output	FL SEGMENT DRIVER
83	P71/FIP17	S7	Output	FL SEGMENT DRIVER
84	P70/FIP16	S6	Output	FL SEGMENT DRIVER
85-89	FIP15-FIP11	S5-S1	Output	FL SEGMENT DRIVER
90-100	FIP10-FIP0	G11-G1	Output	FL GRID DRIVER

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iXA058AWZZ: System Microcomputer (IXA058AW)

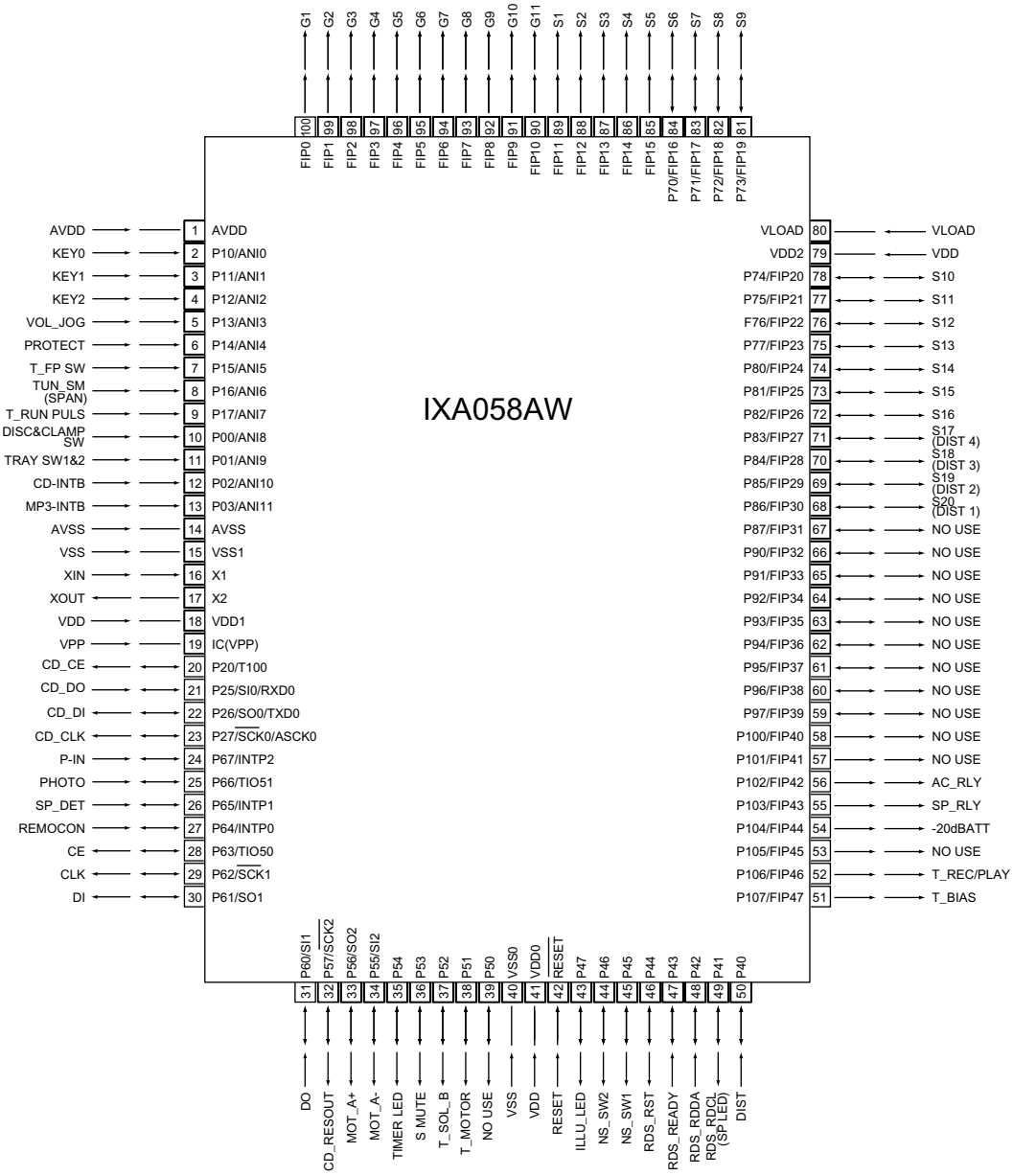
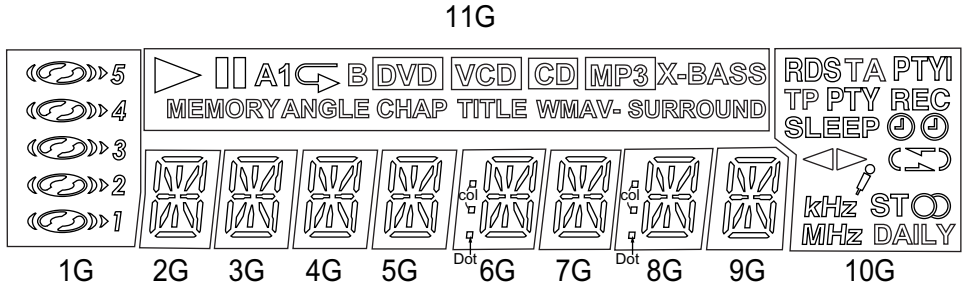


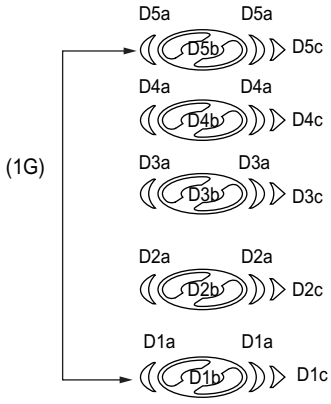
Figure 4 BLOCK DIAGRAM OF IC

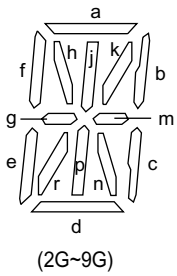
[2] FL DISPLAY

FL701 VVKNA11SS55-1

GRID ASSIGNMENT







ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G
P1	5					col		col		PTYI	DVD
P2	D5-a	a	a	a	a	a	a	a	a	(L)	VCD
P3	D5-b	b	b	b	b	b	b	b	b	TA	CD
P4	D5-c	k	k	k	k	k	k	k	k	TP	X-BASS
P5	4	j	j	j	j	j	j	j	j	RDS	MP3
P6	D4-a	h	h	h	h	h	h	h	h	RES	WMA
P7	D4-b	f	f	f	f	f	f	f	f	▷	V-
P8	D4-c	m	m	m	m	m	m	m	m	◁	SURROUND
P9	3	d	d	d	d	d	d	d	d	DAILY	TITLE
P10	D3-a	g	g	g	g	g	g	g	g	PTY	CHAP
P11	D3-b	p	p	p	p	p	p	p	p	)	ANGLE
P12	D3-c	e	e	e	e	e	e	e	e	(	↻
P13	2	n	n	n	n	n	n	n	n	MHz	A
P14	D2-a	r	r	r	r	r	r	r	r	↺	B
P15	D2-b	c	c	c	c	c	c	c	c	kHz	1
P16	D2-c					Dot		Dot		◎	MEMORY
P17	1									ST	
P18	D1-a									✎	
P19	D1-b									(R)	▷
P 20	D1-c									SLEEP	II

OUTER DIMENSIONS

PIN CONNECTION

PIN NO.	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27-22	21
CONNECTION	F2	F2	NP	NP	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	NX	P6

PIN NO.	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	P5	P4	P3	P2	P1	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1

-MEMO-

SHARP PARTS GUIDE

MICRO COMPONENT SYSTEM

MODEL XL-MP110H

XL-MP110H Micro Component System consisting of XL-MP110H (main unit) and CP-MP110H (speaker system).

MODEL XL-MP110E

XL-MP110E Micro Component System consisting of XL-MP110E (main unit) and CP-MP110E (speaker system).

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[17] OTHER SERVICE PARTS

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] INTEGRATED CIRCUITS					
iC1	VHiLC78690E-1	BE			MP3 Decoder/Digital Signal Processor,LC78690E
iC2	VHiLA6261//-1	AN			Focus/Tracking/Spin/Sled Driver,LA6261
iC101	VHiAN7345K/-1	AM			Playback and Record/Playback Amp.,AN7345K
iC302	VHiLC72131/-1	AP			PLL (Tuner),LC72131
iC303	VHiLA1832S/-1	AN			FM IF Det./FM Mpx./AM IF,LA1832S
iC601	VHiLC75341/-1	AM			Audio Processor,LC75341
iC701	RH-iXA058AWZZ	AY			System Microcomputer,IXA058AW
iC851	VHiKiA7812AP1	AF			Constant Voltage Regulator,KIA7812AP
iC852	VHiKiA7810AP1	AF			Constant Voltage Regulator,KIA7810AP
iC853	VHiKiA7805AP1	AF			Constant Voltage Regulator,KIA7805AP
iC854	VHiKiA78L05-1	AF			Constant Voltage Regulator,KIA78L05
iC901	VHiSTK43207-1	AV			Power Amp.,STK432-070
iCT21	VHiLC72723/-1	AR			RDS Decoder,LC72723 [H Only]
[2] TRANSISTORS					
iC855	VSKTC2026//-1	AF			Silicon,NPN,KTC2026
Q1	VSKTA1504Y/-1	AB			Silicon,PNP,KTA1504 Y
Q2	VSKTA1271Y/-1	AC			Silicon,PNP,KTA1271 Y
Q3	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q4	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q101	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q102	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q103	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q104	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q105	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q106	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q107	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q108	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q109	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q110	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q111	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q112	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q113	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q114	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q301	VS2SC380-O/-1	AC			Silicon,NPN,2SC380 O
Q360	VSKTA1504GR-1	AB			Silicon,PNP,KTA1504 GR
Q601	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q602	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q607	VSKRA102S//-1	AB			Digital,PNP,KRA102 S
Q701	VSKTA1273Y/-1	AE			Silicon,PNP,KTA1273 Y
Q702	VSKTA1271Y/-1	AC			Silicon,PNP,KTA1271 Y
Q703	VSKRC102S//-1	AB			Digital,NPN,KRC102 S
Q712	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q713	VSKRA107S//-1	AB			Digital,NPN,KRA107 S
Q714	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q715	VSKRA107S//-1	AB			Digital,NPN,KRA107 S
Q719	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q801	VSKTA1274Y/-1	AE			Silicon,PNP,KTA1274 Y
Q841	VSKTC3199GR-1	AB			Silicon,NPN,KTC3199 GR, [H Only]
Q850	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q901	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q902	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q903	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q904	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q905	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q906	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
QT21	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR [H Only]
[3] DIODES					
D1	VHDKDS184//-1	AB			Silicon,KDS184
D301	VHD1N4148H/-1	AA			Silicon,1N4148H
D302	VHD1N4148H/-1	AA			Silicon,1N4148H
D702	VHD1N4148H/-1	AA			Silicon,1N4148H
D704	VHD1N4148H/-1	AA			Silicon,1N4148H, [E Only]
D705	VHDKDS160//-1	AB			Silicon,KDS160
D706	VHDKDS160//-1	AB			Silicon,KDS160
D707	VHDKDS160//-1	AB			Silicon,KDS160
D708	VHDKDS160//-1	AB			Silicon,KDS160
D709	VHDKDS160//-1	AB			Silicon,KDS160
D711	VHDKDS160//-1	AB			Silicon,KDS160
D712	VHDKDS160//-1	AB			Silicon,KDS160
D713	VHD1N4148H/-1	AA			Silicon,1N4148H
D714	VHD1N4148H/-1	AA			Silicon,1N4148H
D802	VHDD5SBA60F-1	AH			Silicon,D5SBA60F
D803	VHDRL204F//-1	AC			Silicon,RL204F
D804	VHDRL204F//-1	AC			Silicon,RL204F
D805	VHDDS1N404S-1	AB			Silicon,DS1N404S
D806	VHDDS1N404S-1	AB			Silicon,DS1N404S
D842	VHDDS1N404S-1	AB			Silicon,DS1N404S, [H Only]
D843	VHDDS1N404S-1	AB			Silicon,DS1N404S, [H Only]
D844	VHDDS1N404S-1	AB			Silicon,DS1N404S, [H Only]
D845	VHDDS1N404S-1	AB			Silicon,DS1N404S, [H Only]
D851	VHD1N4148H/-1	AA			Silicon,1N4148H
D852	VHD1N4148H/-1	AA			Silicon,1N4148H
D853	VHDDS1N404S-1	AB			Silicon,DS1N404S, [H Only]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] DIODES					
D855	VHD1N4148H/-1	AA			Silicon,1N4148H, [H Only]
D856	VHD1N4148H/-1	AA			Silicon,1N4148H
D857	VHD1N4148H/-1	AA			Silicon,1N4148H
D858	VHD1N4148H/-1	AA			Silicon,1N4148H
D859	VHD1N4148H/-1	AA			Silicon,1N4148H
D860	VHD1N4148H/-1	AA			Silicon,1N4148H
D905	VHD1N4148H/-1	AA			Silicon,1N4148H
D906	VHD1N4148H/-1	AA			Silicon,1N4148H
D907	VHD1N4148H/-1	AA			Silicon,1N4148H
D911	VHD1N4148H/-1	AA			Silicon,1N4148H
D912	VHD1N4148H/-1	AA			Silicon,1N4148H
LED701	VHPSLR343VC3F	AC			LED,Red,SLR343VC3F
VD301	VHCSVC347S/-1	AG			Variable Capacitance,SVC347S
ZD351	VHEDZ5R1BSB-1	AC			Zener,5.1V,DZ5.1BSB
ZD801	VHEDZ6R2BSA-1	AB			Zener,6.2V,DZ6.2BSA
ZD802	VHEDZ6R8BSA-1	AC			Zener,6.8V,DZ6.8BSA
ZD803	VHEDZ300BSB-1	AB			Zener,30V,DZ300BSB
ZD852	VHEDZ8R2BSB-1	AB			Zener,8.2V,DZ8.2BSB
ZD853	VHEDZ150BSB-1	AB			Zener,15V,DZ15BSB
ZD854	VHEDZ120BSB-1	AB			Zener,12V,DZ12BSB
ZD855	VHEDZ6R2BSA-1	AB			Zener,6.2V,DZ6.2BSA
[4] FILTERS					
CF301	RFiLF0072AFZZ	AG			FM IF
CF302	RFiLF0072AFZZ	AG			FM IF
CF351	RFiLF0003AWZZ	AK			FM IF
CF352	RFiLA0009AWZZ	AE			AM IF
[5] TRANSFORMERS					
⚠ PT801	RTRNP0507AWZZ	BB			Power (Main)
⚠ PT841	RTRNP0313AWZZ	AN			Power (Sub), [H Only]
T303	RCiLA0052AWZZ	AE			AM Antenna
T306	RCiLB0067AWZZ	AD			AM OSC
T351	RCiLi0019AWZZ	AD			AM IF
[6] COILS					
FB1	RBLN-0061TAZZ	AB			Ferrite Beads,BLM18AG121SN1D
FB2	RBLN-0061TAZZ	AB			Ferrite Beads,BLM18AG121SN1D
L103	VP-MK331K0000	AB			330 μH,Choke
L341	RBLN-0002AWZZ	AE			Balun
L342	VP-DH2R2K0000	AB			2.2 μH,Peaking
L351	VP-DH101K0000	AB			100 μH,Choke
L352	VP-DH101K0000	AB			100 μH,Choke
L354	RFiLL0001AWZZ	AE			Low Pass Filter
L701	VP-DH101K0000	AB			100 μH,Choke
L702	VP-DH2R2K0000	AB			2.2 μH,Peaking
L841	RCiLZA016AWZZ	AF			Line Filter
L901	RCiLZA017AWZZ	AB			0.29 μH
L902	RCiLZA017AWZZ	AB			0.29 μH
L903	VP-DH2R2K0000	AB			2.2 μH,Peaking
L920	RCiLZA017AWZZ	AB			0.29 μH
L921	RCiLZA017AWZZ	AB			0.29 μH
LT21	VP-XH2R2K0000	AB			2.2 μH,Choke, [H Only]
LT22	VP-XH2R2K0000	AB			2.2 μH,Choke, [H Only]
[7] VIBRATORS					
X351	92LCRSTL1425A	AF			Crystal,456 kHz
X352	RCRSP0019AWZZ	AF			Crystal,4.5 MHz
XL1	RCRM-0047AWZZ	AE			Ceramic,16.9344 MHz
XL700	RCRSP0029AWZZ	AF			Crystal,8.388608 MHz
XT21	RCRSP0018AWZZ	AG			Crystal,4.332 MHz, [H Only]
[8] CAPACITORS					
C1	VCEAZA1AW107M	AB			100 μF,10V,Electrolytic
C2A	VCKYTV1HB102K	AA			0.001 μF,50V
C3	VCEAZA1AW107M	AB			100 μF,10V,Electrolytic
C4	VCKYPA1HB103K	AA			0.01 μF,50V
C5	VCEAZA1EW476M	AB			47 μF,25V,Electrolytic
C6	RC-EZ0004AWZZ	AD			3.3 μF,16V,Electrolytic
C7	VCKYPA1HB102K	AA			0.001 μF,50V
C8	VCEAZA1AW476M	AB			47 μF,10V,Electrolytic
C9	VCKYCY1HB103K	AA			0.01 μF,50V
C10	VCEAZA0JW108M	AC			1000 μF,6.3V,Electrolytic
C11	VCEAZA1AW107M	AB			100 μF,10V,Electrolytic
C12	VCKYCY1HB472K	AA			0.0047 μF,50V
C13	VCKYCY1HB103K	AA			0.01 μF,50V
C14	VCKYCY1EF473Z	AB			0.047 μF,25V
C15	VCKYCY1CB563K	AB			0.056 μF,16V
C16	VCKYCY1HB103K	AA			0.01 μF,50V
C17	VCKYCY1CB563K	AB			0.056 μF,16V
C18	VCKYCY1HB103K	AA			0.01 μF,50V
C19	VCKYCY1CB104K	AB			0.1 μF,16V
C20	VCEAZA1AW107M	AB			100 μF,10V,Electrolytic
C21	VCKYCY1CB104K	AB			0.1 μF,16V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
C22	VCEAZA1AW477M	AC			470 μ F,10V,Electrolytic
C23	VCKYCY1CB104K	AB			0.1 μ F,16V
C24	VCKYCY1CB104K	AB			0.1 μ F,16V
C25	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C26	VCKYCY1EF473Z	AB			0.047 μ F,25V
C27	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C28	VCKYCY1CB104K	AB			0.1 μ F,16V
C29	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C30	VCKYCY1CB104K	AB			0.1 μ F,16V
C31	VCKYCY1CB104K	AB			0.1 μ F,16V
C32	VCKYCY1CB104K	AB			0.1 μ F,16V
C33	VCKYCY1CB104K	AB			0.1 μ F,16V
C34	VCKYCY1CB104K	AB			0.1 μ F,16V
C35	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C36	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C37	VCKYCY1CB104K	AB			0.1 μ F,16V
C40	VCKYCY1CB104K	AB			0.1 μ F,16V
C41	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C42	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C43	VCKYPA1HB152K	AA			0.0015 μ F,50V
C44	VCKYPA1HB152K	AA			0.0015 μ F,50V
C45	VCKYCY1CB104K	AB			0.1 μ F,16V
C46	VCEAZA1AW477M	AC			470 μ F,10V,Electrolytic
C47	VCKYCY1EF473Z	AB			0.047 μ F,25V
C48	VCKYCY1HB103K	AA			0.01 μ F,50V
C49	VCKYCY1EF223Z	AB			0.022 μ F,25V
C50	VCCCCY1HH101J	AA			100 pF (CH),50V
C51	VCCCCY1HH101J	AA			100 pF (CH),50V
C52	VCCCCY1HH101J	AA			100 pF (CH),50V
C53	VCCCCY1HH101J	AA			100 pF (CH),50V
C54A	VCKYTV1HF223Z	AA			0.022 μ F,50V
C55	VCCCCY1HH101J	AA			100 pF (CH),50V
C56	VCCCCY1HH101J	AA			100 pF (CH),50V
C57	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C58	VCKYBT1HB103K	AB			0.01 μ F,50V
C103	VCKYBT1HB181K	AA			180 pF,50V
C104	VCCCCY1HH181J	AA			180 pF (CH),50V
C105	VCKYCY1HB561K	AA			560 pF,50V
C106	VCKYCY1HB561K	AA			560 pF,50V
C111	VCEAZA1CW107M	AC			100 μ F,16V,Electrolytic
C112	VCEAZA1CW107M	AC			100 μ F,16V,Electrolytic
C113	VCTYPA1EX333K	AA			0.033 μ F,25V
C114	VCTYPA1EX333K	AA			0.033 μ F,25V
C115	VCKYCY1HB561K	AA			560 pF,50V
C116	VCKYCY1HB561K	AA			560 pF,50V
C117	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C118	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C121	VCKYCY1EF223Z	AB			0.022 μ F,25V
C123	VCKYCY1HB271K	AA			270 pF,50V
C124	VCKYCY1HB271K	AA			270 pF,50V
C125	VCEAZA1EW226M	AB			22 μ F,25V,Electrolytic
C126	VCEAZA1EW226M	AB			22 μ F,25V,Electrolytic
C127	VCTYPA1CX223K	AA			0.022 μ F,16V
C128	VCTYPA1CX223K	AA			0.022 μ F,16V
C129	VCKYCY1HB332K	AA			0.0033 μ F,50V
C130	VCKYCY1HB332K	AA			0.0033 μ F,50V
C131	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C132	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C133	VCEAZA1EW226M	AB			22 μ F,25V,Electrolytic
C134	VCEAZA1AW227M	AC			220 μ F,10V,Electrolytic
C135	VCKYCY1EF223Z	AB			0.022 μ F,25V
C137	VCQYKA1HM473K	AB			0.047 μ F,50V,Mylar
C138	VCQPKA2AA822J	AA			0.0082 μ F,100V,Polypropylene
C139	VCQYKA1HM393K	AB			0.039 μ F,50V,Mylar
C140	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C141	VCEAZA1CW107M	AC			100 μ F,16V,Electrolytic
C143	VCEAZA1HW335M	AB			3.3 μ F,50V,Electrolytic
C302	VCKYCY1HB102K	AA			0.001 μ F,50V
C321	VCEAZA1CW107M	AC			100 μ F,16V,Electrolytic
C323	VCKYCY1EF223Z	AB			0.022 μ F,25V
C330	VCCCCY1HH150J	AA			15 pF (CH),50V
C331	VCKYCY1EF473Z	AB			0.047 μ F,25V
C332	VCKYCY1EF223Z	AB			0.022 μ F,25V
C334	VCCCCY1HH220J	AA			22 pF (CH),50V
C335	VCKYCY1HB561K	AA			560 pF,50V
C341	VCKYCY1EF223Z	AB			0.022 μ F,25V
C342	VCKYCY1EF223Z	AB			0.022 μ F,25V
C345	VCKYCY1EF223Z	AB			0.022 μ F,25V
C346	VCKYCY1EF223Z	AB			0.022 μ F,25V
C347	VCKYCY1EF223Z	AB			0.022 μ F,25V
C348	VCKYCY1HB103K	AA			0.01 μ F,50V
C350	VCKYCY1EF223Z	AB			0.022 μ F,25V
C351	VCKYCY1EF223Z	AB			0.022 μ F,25V
C352	VCEAZA1CW106M	AC			10 μ F,16V,Electrolytic
C353	VCKYCY1EF223Z	AB			0.022 μ F,25V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
C354	VCKYCY1EF223Z	AB			0.022 μ F,25V
C355	VCCCCY1HH220J	AA			22 pF (CH),50V
C356	VCKYCY1HB102K	AA			0.001 μ F,50V
C357	VCEAZA1HW225M	AB			2.2 μ F,50V,Electrolytic
C358	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C359	VCTYBT1EF223Z	AA			0.022 μ F,25V
C361	VCKYCY1EF223Z	AB			0.022 μ F,25V
C362	VCEAZA1HW225M	AB			2.2 μ F,50V,Electrolytic
C363	VCKYCY1EF223Z	AB			0.022 μ F,25V
C364	VCEAZA1HW225M	AB			2.2 μ F,50V,Electrolytic
C365	VCTYPA1CX223K	AA			0.022 μ F,16V
C366	VCKYCY1HB102K	AA			0.001 μ F,50V
C367	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C368	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C369	VCCCCY1HH270J	AA			27 pF (CH),50V
C370	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C371	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C372	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C373	VCTYPA1CX153K	AA			0.015 μ F,16V
C374	VCTYPA1CX153K	AA			0.015 μ F,16V
C380	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C381	VCCCCY1HH120J	AA			12 pF (CH),50V
C382	VCCCCY1HH150J	AA			15 pF (CH),50V
C383	VCKYBT1HB101K	AA			100 pF,50V
C384	VCKYCY1HB102K	AA			0.001 μ F,50V
C385	VCKYCY1HB103K	AA			0.01 μ F,50V
C386	VCKYCY1HB331K	AA			330 pF,50V
C387	VCKYCY1EF223Z	AB			0.022 μ F,25V
C388	VCKYCY1HB102K	AA			0.001 μ F,50V
C390	VCTYBT1EF223Z	AA			0.022 μ F,25V
C391	VCEAZA1CW476M	AB			47 μ F,16V,Electrolytic
C392	VCKYCY1HB102K	AA			0.001 μ F,50V
C393	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C394	VCEAZA1CW476M	AB			47 μ F,16V,Electrolytic
C395	VCKYCY1EF223Z	AB			0.022 μ F,25V
C396	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C397	VCKYCY1EF223Z	AB			0.022 μ F,25V
C398	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C399	VCKYCY1EF223Z	AB			0.022 μ F,25V
C601	VCEAZA1CW227M	AC			220 μ F,16V,Electrolytic
C602	VCKYCY1EF223Z	AB			0.022 μ F,25V
C603	VCEAZA1EW226M	AB			22 μ F,25V,Electrolytic
C605	VCFYFA1HA154J	AB			0.15 μ F,50V,Thin Film
C606	VCFYFA1HA154J	AB			0.15 μ F,50V,Thin Film
C607	VCFYFA1HA124J	AL			0.12 μ F,50V,Thin Film
C608	VCFYFA1HA124J	AL			0.12 μ F,50V,Thin Film
C611	VCKYCY1HB332K	AA			0.0033 μ F,50V
C612	VCKYCY1HB332K	AA			0.0033 μ F,50V
C613	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C614	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C615	VCEAZA1HW475M	AB			4.7 μ F,50V,Electrolytic
C616	VCEAZA1HW475M	AB			4.7 μ F,50V,Electrolytic
C617	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C618	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C619	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C620	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C621	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C622	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C623	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C624	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C625	VCKYCY1HB222K	AA			0.0022 μ F,50V
C626	VCKYCY1HB222K	AA			0.0022 μ F,50V
C639	VCEAZA1HW225M	AB			2.2 μ F,50V,Electrolytic
C641	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C642	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C651	VCKYCY1HB221K	AA			220 pF,50V
C652	VCKYCY1HB221K	AA			220 pF,50V
C653	VCKYCY1HB221K	AA			220 pF,50V
C690	VCKYCY1HB391K	AA			390 pF,50V
C691	VCKYCY1HB391K	AA			390 pF,50V
C700	RC-EZD105AF1H	AB			1 μ F,50V,Electrolytic
C701	VCEAZA0JW108M	AC			1000 μ F,6.3V,Electrolytic, [E]
C701	VCEAZA1AW227M	AC			220 μ F,10V,Electrolytic, [H]
C702	VCKYCY1EF223Z	AB			0.022 μ F,25V
C704	VCCCCY1HH180J	AA			18 pF (CH),50V
C705	VCCCCY1HH180J	AA			18 pF (CH),50V
C706	VCKYCY1EF223Z	AB			0.022 μ F,25V
C707	RC-EZD105AF1H	AB			1 μ F,50V,Electrolytic
C710	VCCSPA1HL101J	AA			100 pF,50V
C711	VCCSPA1HL101J	AA			100 pF,50V
C716	VCKYCY1HB102K	AA			0.001 μ F,50V
C717	VCKYCY1HB102K	AA			0.001 μ F,50V
C718	VCKYCY1HB103K	AA			0.01 μ F,50V
C719	RC-EZD335AF1H	AB			3.3 μ F,50V,Electrolytic
C720	VCKYCY1EF223Z	AB			0.022 μ F,25V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
C721	RC-EZD476AF1C	AC			47 μ F,16V,Electrolytic
C722	VCCCCY1HH151J	AA			150 pF (CH),50V
C723	VCKYCY1EF473Z	AB			0.047 μ F,25V
C724	VCKYCY1EF473Z	AB			0.047 μ F,25V
C801	VCEAZA1VW107M	AC			100 μ F,35V,Electrolytic
C802	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C803	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C804	VCEAZA1JW227M	AD			220 μ F,63V,Electrolytic
C805	VCEAZA2AW226M	AC			22 μ F,100V,Electrolytic
C806	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C807	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C808	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C809	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C841	VCEAZA0JW108M	AC			1000 μ F,6.3V,Electrolytic, [H Only]
C842	VCEAZA1EW477M	AD			470 μ F,25V,Electrolytic, [H Only]
C843	VCQYKA1HM473K	AB			0.047 μ F,50V,Mylar, [H Only]
⚠ C844	RC-KZ002LAWZZ	AC			0.0047 μ F,250V,Ceramic, [H Only]
C851	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C854	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C855	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C856	VCEAZW1EW338M	AG			3300 μ F,25V,Electrolytic
C858	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C859	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C861	VCKYPA1HF223Z	AB			0.022 μ F,50V
C863	VCEAZA1EW226M	AB			22 μ F,25V,Electrolytic
C864	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C865	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C901	VCEAZA1HW224M	AB			0.22 μ F,50V,Electrolytic
C902	VCEAZA1HW224M	AB			0.22 μ F,50V,Electrolytic
C903	VCKYCY1HB102K	AA			0.001 μ F,50V
C904	VCKYCY1HB102K	AA			0.001 μ F,50V
C905	VCCCCY1HH3R0C	AA			3 pF (CH),50V
C906	VCCCCY1HH3R0C	AA			3 pF (CH),50V
C907	VCKYCY1HB471K	AA			470 pF,50V
C908	VCKYCY1HB471K	AA			470 pF,50V
C909	VCEAZA1CW226M	AC			22 μ F,16V,Electrolytic
C910	VCEAZA1CW226M	AC			22 μ F,16V,Electrolytic
C911	VCKYCY1EF223Z	AB			0.022 μ F,25V
C912	VCKYCY1EF223Z	AB			0.022 μ F,25V
C913	VCEAZA1JW107M	AC			100 μ F,63V,Electrolytic
C914	VCEAZA1JW107M	AC			100 μ F,63V,Electrolytic
C915	VCEAZA1JW106M	AB			10 μ F,63V,Electrolytic
C916	VCEAZA1JW106M	AB			10 μ F,63V,Electrolytic
C921	RC-EZ0112AWZZ	AH			2200 μ F,56V,Electrolytic
C922	RC-EZ0112AWZZ	AH			2200 μ F,56V,Electrolytic
C925	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C926	VCFYFA1HA224J	AC			0.22 μ F,50V,Thin Film
C927	VCFYFA1HA224J	AC			0.22 μ F,50V,Thin Film
C928	VCFYFA1HA224J	AC			0.22 μ F,50V,Thin Film
C929	VCFYFA1HA224J	AC			0.22 μ F,50V,Thin Film
C930	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C931	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C932	VCFYFA1HA224J	AC			0.22 μ F,50V,Thin Film
C934	VCKZPA1HF223Z	AA			0.022 μ F,50V
C935	VCKZPA1HF223Z	AA			0.022 μ F,50V
C936	VCKZPA1HF223Z	AA			0.022 μ F,50V
C937	VCKZPA1HF223Z	AA			0.022 μ F,50V
C938	VCKZPA1HF223Z	AA			0.022 μ F,50V
C939	VCKZPA1HF223Z	AA			0.022 μ F,50V
C940	VCKZPA1HF223Z	AA			0.022 μ F,50V
C941	VCKZPA1HF223Z	AA			0.022 μ F,50V
C942	VCKYPA1HB102K	AA			0.001 μ F,50V
C943	VCKYPA1HB102K	AA			0.001 μ F,50V
C946	VCEAZA1HW104M	AB			0.1 μ F,50V,Electrolytic
C950	VCKYPA1HB122K	AA			0.0012 μ F,50V
C951	VCKYPA1HB122K	AA			0.0012 μ F,50V
C952	VCKYPA1HB102K	AA			0.001 μ F,50V
C953	VCKYPA1HB102K	AA			0.001 μ F,50V
C954	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C955	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C960	VCEAZA1EW335M	AB			3.3 μ F,25V,Electrolytic
CT21	VCEAZA1AW476M	AB			47 μ F,10V,Electrolytic, [H Only]
CT22	VCKYCY1EF223Z	AB			0.022 μ F,25V [H Only]
CT23	VCCCCY1HH220J	AA			22 pF (CH),50V, [H Only]
CT25	VCCCCY1HH220J	AA			22 pF (CH),50V, [H Only]
CT26	VCKYCY1HB561K	AA			560 pF,50V, [H Only]
CT27	VCKYCY1EF223Z	AB			0.022 μ F,25V, [H Only]
CT28	VCKYCY1EF223Z	AB			0.022 μ F,25V, [H Only]
CT29	VCKYCY1EF223Z	AB			0.022 μ F,25V, [H Only]
CT30	VCKYCY1EF223Z	AB			0.022 μ F,25V, [H Only]
CT31	VCEAZA1AW476M	AB			47 μ F,10V,Electrolytic, [H Only]
CT32	VCEAZA1CW106M	AC			10 μ F,16V,Electrolytic, [H Only]

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R05	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R06	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R7	VRD-ST2CD470J	AA			47 ohms,1/6W
R8	VRS-CY1JB100J	AA			10 ohm,1/16W
R9	VRD-ST2CD102J	AA			1 kohm,1/6W
R10	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R11	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R12	VRD-ST2CD103J	AA			10 kohm,1/6W
R13	VRD-ST2CD103J	AA			10 kohm,1/6W
R14	VRS-CY1JB103J	AA			10 kohm,1/16W
R15	VRS-CY1JB103J	AA			10 kohm,1/16W
R16	VRS-CY1JB331J	AA			330 ohms,1/16W
R17	VRD-ST2CD330J	AA			33 ohms,1/6W
R18	VRS-CY1JB1R0J	AA			1 ohm,1/16W
R19	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R20	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R21	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R22	VRD-ST2CD682J	AA			6.8 kohms,1/6W
R23	VRD-ST2CD681J	AA			680 ohms,1/6W
R24	VRD-ST2CD681J	AA			680 ohms,1/6W
R24A	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R25	VRD-ST2CD104J	AA			100 kohm,1/6W
R26	VRD-ST2CD102J	AA			1 kohm,1/6W
R27	VRD-ST2CD820J	AA			82 ohms,1/6W
R28	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R29	VRD-ST2CD1R0J	AA			1 ohm,1/6W
R30	VRS-CY1JB271J	AA			270 ohms,1/16W
R31	VRS-CY1JB681J	AA			680 ohms,1/16W
R32	VRS-CY1JB820J	AA			82 ohms,1/16W
R33	VRS-CY1JB102J	AA			1 kohm,1/16W
R34	VRS-CY1JB102J	AA			1 kohm,1/16W
R35	VRD-ST2CD102J	AA			1 kohm,1/6W
R36	VRS-CY1JB102J	AA			1 kohm,1/16W
R37	VRS-CY1JB102J	AA			1 kohm,1/16W
R38	VRS-CY1JB102J	AA			1 kohm,1/16W
R39	VRS-CY1JB102J	AA			1 kohm,1/16W
R40	VRD-ST2CD102J	AA			1 kohm,1/6W
R41	VRD-ST2CD102J	AA			1 kohm,1/6W
R42	VRD-ST2CD102J	AA			1 kohm,1/6W
R43	VRS-CY1JB820J	AA			82 ohms,1/16W
R44	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R45	VRS-CY1JB151J	AA			150 ohms,1/16W
R46	VRS-CY1JB223J	AA			22 kohms,1/16W
R47	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R48	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R49	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R50	VRS-CY1JB103J	AA			10 kohm,1/16W
R51	VRS-CY1JB103J	AA			10 kohm,1/16W
R52	VRS-CY1JB820J	AA			82 ohms,1/16W
R53	VRD-ST2EE1R0J	AA			1 ohm,1/4W
R54	VRD-ST2EE1R0J	AA			1 ohm,1/4W
R55	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R57	VRD-ST2CD333J	AA			33 kohms,1/6W
R58	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R59	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R60	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R61	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R62	VRD-ST2CD271J	AA			270 ohms,1/6W
R63	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R64	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R65	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R66	VRD-ST2CD392J	AA			3.9 kohms,1/6W
R67	VRS-CY1JB225J	AA			2.2 Mohms,1/16W
R103	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R104	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R105	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R106	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R107	VRS-CY1JB473J	AA			47 kohms,1/16W
R108	VRS-CY1JB473J	AA			47 kohms,1/16W
R109	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R110	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R111	VRD-ST2CD153J	AA			15 kohms,1/6W
R112	VRS-CY1JB153J	AA			15 kohms,1/16W
R113	VRD-ST2CD332J	AA			3.3 kohm,1/6W
R114	VRD-ST2CD332J	AA			3.3 kohm,1/6W
R115	VRD-ST2CD560J	AA			56 ohms,1/6W
R116	VRD-ST2CD560J	AA			56 ohms,1/6W
R117	VRS-CY1JB104J	AA			100 kohm,1/16W
R118	VRS-CY1JB104J	AA			100 kohm,1/16W
R119	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R120	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R121	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R122	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R123	VRS-CY1JB682J	AA			6.8 kohms,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R124	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R126	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R127	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R128	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R129	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R130	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R131	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R132	VRS-CY1JB101J	AA			100 ohm,1/16W
R133	VRS-CY1JB101J	AA			100 ohm,1/16W
R134	VRS-CY1JB103J	AA			10 kohm,1/16W
R135	VRS-CY1JB103J	AA			10 kohm,1/16W
R136	VRD-ST2CD224J	AA			220 kohms,1/6W
R137	VRD-ST2CD224J	AA			220 kohms,1/6W
R138	VRD-ST2CD103J	AA			10 kohm,1/6W
R139	VRS-CY1JB103J	AA			10 kohm,1/16W
R140	VRS-CY1JB473J	AA			47 kohms,1/16W
R141	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R142	VRD-RT2HD820J	AA			82 ohms,1/2W
R143	VRS-CY1JB473J	AA			47 kohms,1/16W
R144	VRS-CY1JB223J	AA			22 kohms,1/16W
R145	VRS-CY1JB4R7J	AA			4.7 ohms,1/16W
R146	VRS-CY1JB103J	AA			10 kohm,1/16W
R147	VRS-CY1JB103J	AA			10 kohm,1/16W
R148	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R149	VRD-ST2EE151J	AA			150 ohms,1/4W
R150	VRS-CY1JB683J	AA			68 kohms,1/16W
R151	VRS-CY1JB101J	AA			100 ohm,1/16W
R152	VRS-CY1JB102J	AA			1 kohm,1/16W
R153	VRS-CY1JB102J	AA			1 kohm,1/16W
R154	VRS-CY1JB101J	AA			100 ohm,1/16W
R158	VRD-ST2EE221J	AA			220 ohms,1/4W
R301	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R323	VRS-CY1JB683J	AA			68 kohms,1/16W
R336	VRS-CY1JB103J	AA			10 kohm,1/16W
R344	VRS-CY1JB471J	AA			470 ohms,1/16W
R345	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R346	VRS-CY1JB331J	AA			330 ohms,1/16W
R347	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R348	VRS-CY1JB681J	AA			680 ohms,1/16W
R349	VRS-CY1JB330J	AA			33 ohms,1/16W
R350	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R351	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R352	VRS-CY1JB102J	AA			1 kohm,1/16W
R353	VRS-CY1JB271J	AA			270 ohms,1/16W
R355	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R356	VRS-CY1JB102J	AA			1 kohm,1/16W
R357	VRS-CY1JB474J	AA			470 kohms,1/16W
R358	VRD-ST2CD392J	AA			3.9 kohms,1/6W
R359	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R360	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R365	VRS-CY1JB103J	AA			10 kohm,1/16W
R369	VRS-CY1JB150J	AB			15 ohms,1/16W
R370	VRD-ST2CD102J	AA			1 kohm,1/6W, [H Only]
R372	VRS-CY1JB102J	AA			1 kohm,1/16W
R373	VRS-CY1JB102J	AA			1 kohm,1/16W
R374	VRS-CY1JB102J	AA			1 kohm,1/16W
R376	VRS-CY1JB102J	AA			1 kohm,1/16W
R377	VRS-CY1JB473J	AA			47 kohms,1/16W
R378	VRS-CY1JB102J	AA			1 kohm,1/16W
R379	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R380	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R381	VRS-CY1JB103J	AA			10 kohm,1/16W
R382	VRD-ST2EE151J	AA			150 ohms,1/4W
R383	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R384	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R385	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R386	VRD-ST2CD223J	AA			22 kohms,1/6W
R387	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R388	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R391	VRD-RT2HD221J	AA			220 ohms,1/2W
R392	VRD-RT2HD221J	AA			220 ohms,1/2W
R393	VRS-CY1JB102J	AA			1 kohm,1/16W
R395	VRS-CY1JB473J	AA			47 kohms,1/16W
R399	VRS-CY1JB330J	AA			33 ohms,1/16W
R601	VRD-ST2CD102J	AA			1 kohm,1/6W
R602	VRD-ST2CD102J	AA			1 kohm,1/6W
R603	VRD-ST2CD102J	AA			1 kohm,1/6W
R606	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R607	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R608	VRS-CY1JB681J	AA			680 ohms,1/16W
R609	VRS-CY1JB681J	AA			680 ohms,1/16W
R610	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R611	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R612	VRS-CY1JB391J	AA			390 ohms,1/16W
R613	VRS-CY1JB391J	AA			390 ohms,1/16W

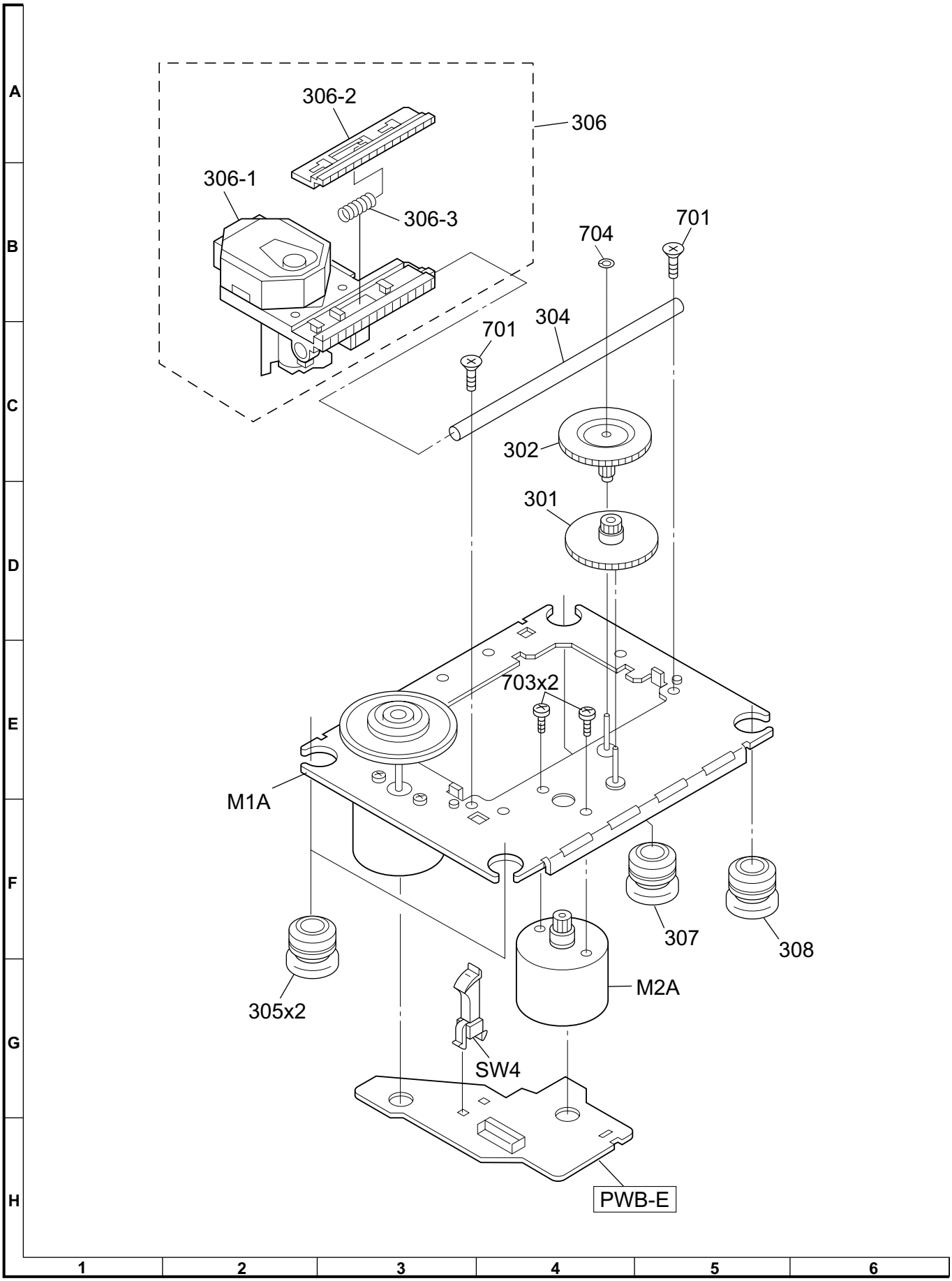
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R614	VRS-CY1JB222J	AA			2.2 kohms,1/16W, [E Only]
R614	VRS-CY1JB332J	AA			3.3 kohms,1/16W, [H Only]
R615	VRS-CY1JB222J	AA			2.2 kohms,1/16W, [E Only]
R615	VRS-CY1JB332J	AA			3.3 kohms,1/16W, [H Only]
R618	VRD-ST2CD331J	AA			330 ohms,1/6W
R619	VRD-ST2CD331J	AA			330 ohms,1/6W
R623	VRS-CY1JB103J	AA			12 kohms,1/16W
R624	VRS-CY1JB223J	AA			22 kohms,1/16W
R625	VRS-CY1JB103J	AA			12 kohms,1/16W
R641	VRD-ST2CD103J	AA			10 kohm,1/6W
R642	VRS-CY1JB103J	AA			10 kohm,1/16W
R643	VRS-CY1JB223J	AA			22 kohms,1/16W
R644	VRS-CY1JB223J	AA			22 kohms,1/16W
R688	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R690	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R691	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R692	VRS-CY1JB393J	AA			39 kohms,1/16W
R693	VRS-CY1JB393J	AA			39 kohms,1/16W
R700	VRS-CY1JB102J	AA			1 kohm,1/16W
R701	VRS-CY1JB102J	AA			1 kohm,1/16W
R702	VRS-CY1JB102J	AA			1 kohm,1/16W
R703	VRD-ST2CD102J	AA			1 kohm,1/6W
R704	VRD-ST2CD102J	AA			1 kohm,1/6W
R705	VRD-ST2CD102J	AA			1 kohm,1/6W
R706	VRS-CY1JB102J	AA			1 kohm,1/16W
R707	VRS-CY1JB102J	AA			1 kohm,1/16W
R708	VRS-CY1JB102J	AA			1 kohm,1/16W
R709	VRS-CY1JB102J	AA			1 kohm,1/16W
R710	VRS-CY1JB104J	AA			100 kohm,1/16W
R711	VRS-CY1JB221J	AA			220 ohms,1/16W
R712	VRS-CY1JB102J	AA			1 kohm,1/16W
R713	VRS-CY1JB221J	AA			220 ohms,1/16W
R714	VRS-CY1JB221J	AA			220 ohms,1/16W
R715	VRS-CY1JB102J	AA			1 kohm,1/16W
R716	VRD-ST2CD102J	AA			1 kohm,1/6W
R717	VRS-CY1JB102J	AA			1 kohm,1/16W
R718	VRD-ST2CD102J	AA			1 kohm,1/6W
R719	VRD-ST2CD102J	AA			1 kohm,1/6W
R720	VRD-ST2CD102J	AA			1 kohm,1/6W
R721	VRD-ST2CD102J	AA			1 kohm,1/6W
R722	VRD-ST2CD102J	AA			1 kohm,1/6W
R723	VRD-ST2CD102J	AA			1 kohm,1/6W
R724	VRD-ST2CD102J	AA			1 kohm,1/6W
R725	VRD-ST2CD102J	AA			1 kohm,1/6W
R726	VRD-ST2CD561J	AA			560 ohms,1/6W
R728	VRS-CY1JB681J	AA			680 ohms,1/16W
R729	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R731	VRS-CY1JB102J	AA			1 kohm,1/16W
R735	VRS-CY1JB102J	AA			1 kohm,1/16W, [H Only]
R736	VRS-CY1JB102J	AA			1 kohm,1/16W, [H Only]
R737	VRS-CY1JB102J	AA			1 kohm,1/16W, [H Only]
R738	VRS-CY1JB102J	AA			1 kohm,1/16W, [H Only]
R739	VRD-ST2CD102J	AA			1 kohm,1/6W
R740	VRD-ST2CD102J	AA			1 kohm,1/6W
R742	VRD-ST2CD102J	AA			1 kohm,1/6W
R743	VRD-ST2CD102J	AA			1 kohm,1/6W, [H Only]
R744	VRS-CY1JB103J	AA			10 kohm,1/16W, [H Only]
R745	VRS-CY1JB103J	AA			10 kohm,1/16W
R747	VRS-CY1JB103J	AA			10 kohm,1/16W
R749	VRS-CY1JB103J	AA			10 kohm,1/16W
R750	VRS-CY1JB103J	AA			10 kohm,1/16W
R751	VRS-CY1JB103J	AA			10 kohm,1/16W
R756	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R757	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R758	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R759	VRS-CY1JB103J	AA			10 kohm,1/16W
R765	VRD-ST2CD331J	AA			330 ohms,1/6W
R769	VRS-CY1JB103J	AA			10 kohm,1/16W
R770	VRS-CY1JB103J	AA			10 kohm,1/16W
R771	VRS-CY1JB103J	AA			10 kohm,1/16W
R772	VRS-CY1JB103J	AA			10 kohm,1/16W
R773	VRS-CY1JB103J	AA			10 kohm,1/16W
R774	VRS-CY1JB103J	AA			10 kohm,1/16W
R775	VRD-ST2CD473J	AA			47 kohms,1/6W
R778	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R779	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R780	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R781	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R783	VRD-ST2EE1R5J	AA			1.5 ohms,1/4W
R784	VRD-ST2EE1R5J	AA			1.5 ohms,1/4W
R785	VRS-CY1JB103J	AA			10 kohm,1/16W
R786	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R787	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R789	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R791	VRS-CY1JB103J	AA			10 kohm,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R793	VRS-CY1JB103J	AA			10 kohm,1/16W
R794	VRS-CY1JB102J	AA			1 kohm,1/16W
R795	VRD-ST2CD102J	AA			1 kohm,1/6W, [H Only]
R796	VRS-CY1JB473J	AA			47 kohms,1/16W
R797	VRS-CY1JB104J	AA			100 kohm,1/16W
R798	VRS-CY1JB101J	AA			100 ohm,1/16W
R799	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green, [E Only]
R801	VRD-ST2CD104J	AA			100 kohm,1/6W
R802	VRD-ST2CD473J	AA			47 kohms,1/6W
R803	VRD-ST2CD123J	AA			12 kohms,1/6W
R804	VRD-ST2EE470J	AA			47 ohms,1/4W
R805	VRD-ST2EE470J	AA			47 ohms,1/4W
R806	VRD-ST2CD473J	AA			47 kohms,1/6W
R807	VRD-ST2EE101J	AA			100 ohm,1/4W
R808	VRD-RT2HD222J	AA			2.2 kohms,1/2W
R841	VRD-ST2CD224J	AA			220 kohms,1/6W, [H Only]
R842	VRD-ST2CD102J	AA			1 kohm,1/6W, [H Only]
R843	VRD-ST2CD473J	AA			47 kohms,1/6W, [H Only]
R844	VRD-ST2EE820J	AA			82 ohms,1/4W, [H Only]
R852	VRD-ST2CD103J	AA			10 kohm,1/6W
R853	VRD-ST2CD223J	AA			22 kohms,1/6W
R854	VRD-ST2CD223J	AA			22 kohms,1/6W
R858	VRD-ST2CD221J	AA			220 ohms,1/6W, [H Only]
R859	VRD-ST2CD223J	AA			22 kohms,1/6W
R860	VRD-ST2EE221J	AA			220 ohms,1/4W
R901	VRS-CY1JB563J	AA			56 kohms,1/16W
R902	VRS-CY1JB563J	AA			56 kohms,1/16W
R903	VRS-CY1JB102J	AA			1 kohm,1/16W
R904	VRS-CY1JB102J	AA			1 kohm,1/16W
R905	VRS-CY1JB821J	AA			820 ohms,1/16W
R906	VRS-CY1JB821J	AA			820 ohms,1/16W
R907	VRS-CY1JB563J	AA			56 kohms,1/16W
R908	VRS-CY1JB563J	AA			56 kohms,1/16W
R909	VRS-CY1JB102J	AA			1 kohm,1/16W
R910	VRS-CY1JB102J	AA			1 kohm,1/16W
R913	VRN-VV3AAR10J	AB			0.1 ohm,1W
R914	VRN-VV3AAR10J	AB			0.1 ohm,1W
R915	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R916	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R917	VRN-VV3DAR22J	AC			0.22 ohms,2W
R918	VRN-VV3DAR22J	AC			0.22 ohms,2W
R919	VRN-VV3DAR22J	AC			0.22 ohms,2W
R920	VRN-VV3DAR22J	AC			0.22 ohms,2W
⚠ R921	VRG-ST2EC101J	AB			100 ohm,1/4W,Fusible
⚠ R922	VRG-ST2EC101J	AB			100 ohm,1/4W,Fusible
R923	VRS-CY1JB102J	AA			1 kohm,1/16W
R924	VRS-CY1JB102J	AA			1 kohm,1/16W
R925	VRD-RT2HD223J	AA			22 kohms,1/2W
R927	VRD-ST2EE223J	AA			22 kohms,1/4W
R928	VRD-ST2EE223J	AA			22 kohms,1/4W
R935	VRD-ST2CD563J	AA			56 kohms,1/6W
R936	VRD-ST2CD563J	AA			56 kohms,1/6W
R937	VRS-CY1JB563J	AA			56 kohms,1/16W
R940	VRD-ST2EE4R7J	AA			4.7 ohms,1/4W
R941	VRD-ST2EE4R7J	AA			4.7 ohms,1/4W
R942	VRD-RT2HD102J	AA			1 kohm,1/2W
R943	VRD-RT2HD102J	AA			1 kohm,1/2W
R944	VRD-ST2CD152J	AA			1.5 kohms,1/6W
R945	VRD-ST2CD152J	AA			1.5 kohms,1/6W
R946	VRS-CY1JB473J	AA			47 kohms,1/16W
R947	VRD-ST2CD153J	AA			15 kohms,1/6W
R949	VRD-ST2CD102J	AA			1 kohm,1/6W
R950	VRS-CY1JB683J	AA			68 kohms,1/16W
R952	VRD-ST2EE6R8J	AA			6.8 ohms,1/4W
R953	VRD-ST2EE6R8J	AA			6.8 ohms,1/4W
R954	VRD-ST2EE6R8J	AA			6.8 ohms,1/4W
R955	VRD-ST2EE6R8J	AA			6.8 ohms,1/4W
R957	VRD-RT2HD102J	AA			1 kohm,1/2W
R958	VRD-RT2HD102J	AA			1 kohm,1/2W
R965	VRD-RT2HD822J	AA			8.2 kohms,1/2W
R966	VRD-RT2HD822J	AA			8.2 kohms,1/2W
R968	VRD-RT2HD681J	AA			680 ohms,1/2W
R970	VRD-ST2CD680J	AA			68 ohms,1/6W
R971	VRD-ST2CD680J	AA			68 ohms,1/6W
RD01	VRS-CY1JB681J	AA			680 ohms,1/16W
RD02	VRS-CY1JB821J	AA			820 ohms,1/16W
RD03	VRD-ST2CD102J	AA			1 kohm,1/6W
RD04	VRS-CY1JB152J	AA			1.5 kohms,1/16W
RD05	VRD-ST2CD222J	AA			2.2 kohms,1/6W, [H Only]
RD06	VRD-ST2CD272J	AA			2.7 kohms,1/6W, [H Only]
RD07	VRS-CY1JB392J	AA			3.9 kohms,1/16W, [H Only]
RD08	VRS-CY1JB562J	AA			5.6 kohms,1/16W, [H Only]
RD09	VRS-CY1JB103J	AA			10 kohm,1/16W, [H Only]
RD11	VRS-CY1JB681J	AA			680 ohms,1/16W
RD12	VRS-CY1JB821J	AA			820 ohms,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
RD13	VRS-CY1JB102J	AA			1 kohm,1/16W
RD14	VRS-CY1JB152J	AA			1.5 kohms,1/16W
RD15	VRD-ST2CD222J	AA			2.2 kohms,1/6W
RD16	VRD-ST2CD272J	AA			2.7 kohms,1/6W
RD17	VRS-CY1JB392J	AA			3.9 kohms,1/16W
RD18	VRS-CY1JB681J	AA			680 ohms,1/16W
RD19	VRS-CY1JB821J	AA			820 ohms,1/16W
RD20	VRD-ST2CD102J	AA			1 kohm,1/6W
RD21	VRS-CY1JB152J	AA			1.5 kohms,1/16W
RD22	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RD23	VRS-CY1JB272J	AA			2.7 kohms,1/16W
RD24	VRS-CY1JB392J	AA			3.9 kohms,1/16W
RD25	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RD26	VRS-CY1JB103J	AA			10 kohm,1/16W
RT21	VRS-CY1JB103J	AA			10 kohm,1/16W, [H Only]
RT24	VRS-CY1JB563J	AA			56 kohms,1/16W, [H Only]
RT25	VRS-CY1JB103J	AA			10 kohm,1/16W, [H Only]
RT26	VRS-CY1JB563J	AA			56 kohms,1/16W, [H Only]
RT27	VRS-CY1JB102J	AA			1 kohm,1/16W, [H Only]
RT28	VRS-CY1JB102J	AA			1 kohm,1/16W, [H Only]
RT29	VRS-CY1JB102J	AA			1 kohm,1/16W, [H Only]
RT30	VRS-CY1JB102J	AA			1 kohm,1/16W, [H Only]
RT31	VRS-CY1JB103J	AA			10 kohm,1/16W, [H Only]
RT32	VRS-CY1JB682J	AA			6.8 kohms,1/16W, [H Only]
[10] OTHER CIRCUITRY PARTS					
Bi601	QCNWNA317AWPZ	AF			Connector Ass'y,8/7Pin,with CNS3
Bi703	QCNWN2747AWPZ	AB			Flat Wire,2Pin(A,B)
Bi801	QCNWNA310AWPZ	AH			Connector Ass'y,9/8Pin,with CNS801
Bi802	QCNWNA056AWPZ	AF			Connector Ass'y,7/6Pin,with CNS802
Bi902	QCNWN2756AWPZ	AF			Connector Ass'y,5/4Pin,with CNS902
CNB1	QCNCWZO11AWZZ	AC			Socket,11Pin
CNP1	QCNCWYP16AWZZ	AD			Socket,16Pin
CNP2	92LCONE6P53253	AC			Plug,6Pin
CNP3	92LCONE7P53254	AB			Plug,7Pin
CNP3A	92LCONE6P53254	AC			Plug,6Pin
CNP4	QCNCWZX11AWZZ	AC			Socket,11Pin
CNP5	92LCONE4P53254	AC			Plug,4Pin
CNP6	QCNCM704GAFZZ	AC			Plug,7Pin
CNP7	QCNCWZY14AWZZ	AD			Socket,14Pin
CNP101	QCNCM705GAFZZ	AB			Plug,7Pin
CNP302	92LCONE2P5268	AB			Plug,2Pin
CNP303	QCNCM010PAWZZ	AD			Plug,14Pin
CNP701A	QCNCWYP25AWZZ	AE			Socket,25Pin, [E]
CNP701A	QCNCWYP29AWZZ	AD			Socket,29Pin, [H]
CNP701B	QCNCWYP25AWZZ	AE			Socket,25Pin, [E]
CNP701B	QCNCWYP29AWZZ	AD			Socket,29Pin, [H]
CNP702	QCNCWZY07AWZZ	AC			Socket,7Pin
CNP704	QCNCWZX14AWZZ	AD			Socket,14Pin
CNP706A	QCNCWYP07AWZZ	AC			Socket,7Pin
CNP706B	QCNCWYP07AWZZ	AC			Socket,7Pin
CNP708	QCNCW012EAWZZ	AC			Socket,5Pin
CNP801	QCNCM035HAWZZ	AB			Plug,8Pin
CNP802	92LCONE6P53253	AC			Plug,6Pin
CNP805	QCNCM049BAWZZ	AC			Plug,2Pin
CNP902	92LCONE4P5267X	AB			Plug,4Pin
CNP971	92LCONE2P53253	AB			Plug,2Pin
CNS101	--------	-			Connector Ass'y,7Pin(Supplied at REF No.212)
CNS303	QCNCW010PAWZZ	AE			Socket,14Pin
CNS971	QCNWNA057AWPZ	AC			Connector Ass'y,2Pin
CNW3	QCNWN2699AWPZ	AF			Connector Ass'y,6/6Pin
⚠ F801	QFS-D402CAWNi	AC			Fuse,T4A L 250V
⚠ F802	QFS-D402CAWNi	AC			Fuse,T4A L 250V
⚠ F803	QFS-D202CAWNi	AC			Fuse,T2A L 250V
⚠ F804	QFS-D202CAWNi	AC			Fuse,T2A L 250V
FE301	RTUNS0027AWZZ	AU			FM Front End
FFC1	QCNWN2700AWPZ	AE			Flat Cable,16Pin
FFC4	QCNWN2701AWPZ	AD			Flat Cable,11Pin
FFC7	QCNWN2741AWPZ	AE			Flat Cable,14Pin
FFC701	QCNWNA316AWPZ	AE			Flat Cable,29Pin, [H]
FFC701	QCNWN2745AWPZ	AE			Flat Cable,25Pin, [E]
FFC702	QCNWN2740AWPZ	AD			Flat Cable,7Pin
FFC706	QCNWNA043AWPZ	AD			Flat Cable,7Pin
FL701	VVKNA11SS55-1	AV			FL Display
FW901	QCNWNA277AWPZ	AC			Flat Wire,5Pin
JK690	QSOCJ0224AWZZ	AC			Jack,Video/AUX
JK701	QJAKM0004AWZZ	AK			Jack,Headphones
JK953	QSOCJA010AWZZ	AC			Sub Woofer Output

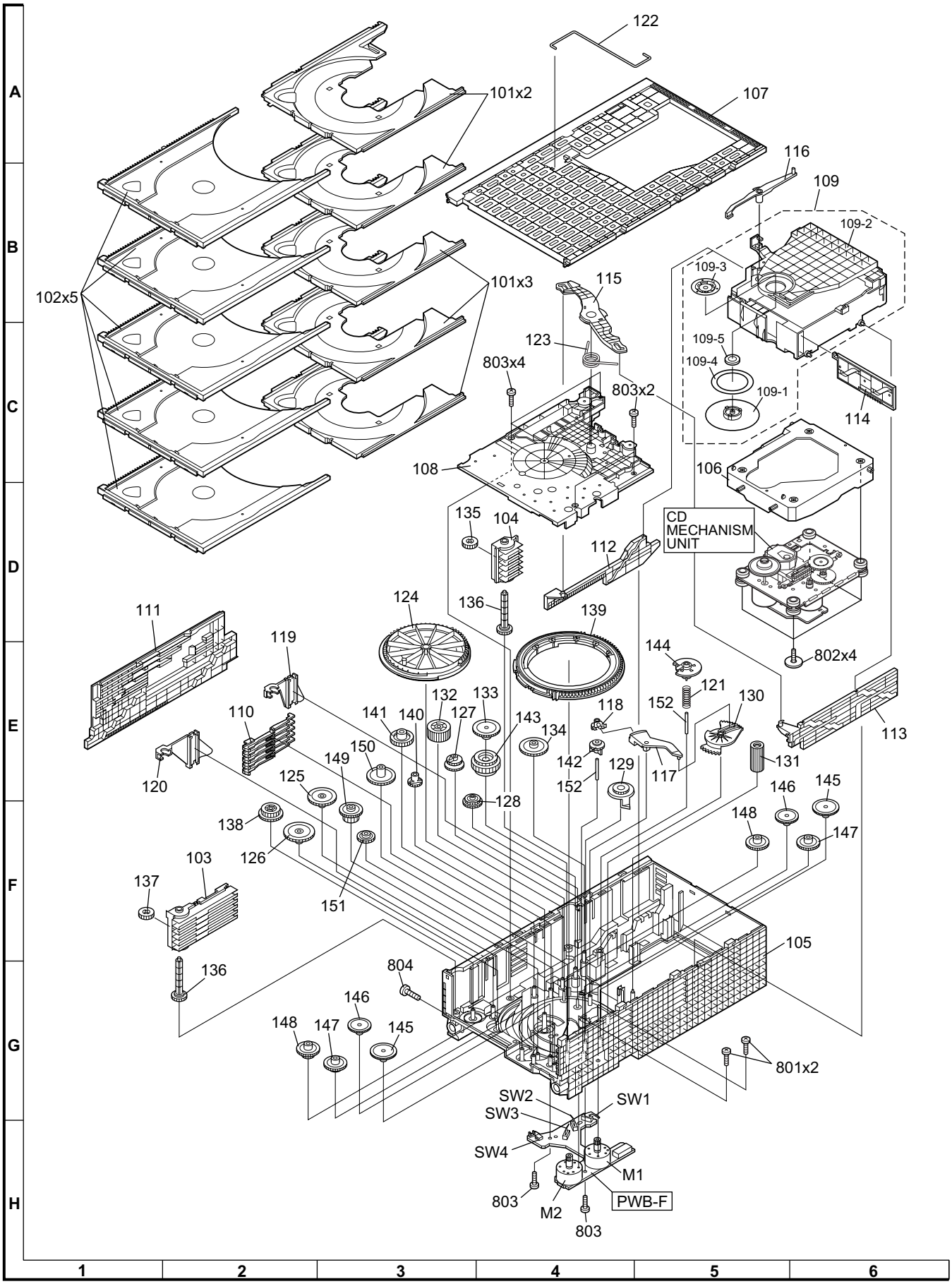
	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[10] OTHER CIRCUITRY PARTS					
	M1	92LMTR5529BASY	AD			Motor with Gear [Tray]
	M1A	92LMTR5515CASY	AS			Motor with Chassis [Spindle]
	M2	92LMTR5529BASY	AD			Motor with Gear [Main Cam]
	M2A	92LMMTR1854A	AP			Motor with Gear [Sled]
	M971	RMOTV0027AWZZ	AM			Motor,Air Cooling Fan(202-3)
⚠	RL841	RRLYD0018AWZZ	AH			Relay,AC, [H Only]
	RL914	RRLYD0016AWZZ	AH			Relay,Speaker
	RX1	VHPGP1S094HCZ	AF			Photo Interrupter
	RX701	VHLK2013TH2E1	AG			Remote Sensor,2013TH2E1
	SO301	QTANC0105AWZZ	AE			Terminal,FM Antenna
	SO901	QTANA0426AWZZ	AE			Terminal,Speaker
	SP1	RSP-ZA092AWZZ	AY			Woofer
	SP2	RSP-ZA092AWZZ	AY			Woofer
	SP3	RSP-ZA093AWZZ	AS			Tweeter
	SP4	RSP-ZA093AWZZ	AS			Tweeter
	SW1	QSW-P9003AWZZ	AD			Switch,Push Type [CLAMP]
	SW1A	QSWF9001AW01	AD			Switch,Leaf Type [PICKUP IN]
	SW2	QSW-P9003AWZZ	AD			Switch,Push Type [TRAY SW1]
	SW3	QSW-P9003AWZZ	AD			Switch,Push Type [TRAY SW2]
	SW4	QSW-P9006AWZZ	AF			Switch,Push Type [DISC]
	SW701	92LSWiCHT1663T	AC			Switch,Key Type [ON/STAND-BY]
	SW702	92LSWiCHT1663T	AC			Switch,Key Type [CLOCK/TIMER]
	SW703	92LSWiCHT1663T	AC			Switch,Key Type [REC/PAUSE]
	SW704	92LSWiCHT1663T	AC			Switch,Key Type [PRESET UP]
	SW705	92LSWiCHT1663T	AC			Switch,Key Type [PRESET DOWN]
	SW708	92LSWiCHT1663T	AC			Switch,Key Type [DISPLAY MODE] [H Only]
	SW709	92LSWiCHT1663T	AC			Switch,Key Type [PTY/TI SEARCH] [H Only]
	SW710	92LSWiCHT1663T	AC			Switch,Key Type [ASPM] [H Only]
	SW711	92LSWiCHT1663T	AC			Switch,Key Type [VIDEO/AUX]
	SW712	92LSWiCHT1663T	AC			Switch,Key Type [TUNER (BAND)]
	SW713	92LSWiCHT1663T	AC			Switch,Key Type [PLAY/REPEAT]
	SW714	92LSWiCHT1663T	AC			Switch,Key Type [TUNING/TIME DOWN]
	SW715	92LSWiCHT1663T	AC			Switch,Key Type [TUNING/TIME UP]
	SW716	92LSWiCHT1663T	AC			Switch,Key Type [STOP]
	SW717	92LSWiCHT1663T	AC			Switch,Key Type [CD]
	SW718	92LSWiCHT1663T	AC			Switch,Key Type [TAPE]
	SW719	92LSWiCHT1663T	AC			Switch,Key Type [MEMORY/SET]
	SW720	92LSWiCHT1663T	AC			Switch,Key Type [EQUALISER]
	SW721	92LSWiCHT1663T	AC			Switch,Key Type [X-BASS/DEMO]
	SW722	92LSWiCHT1663T	AC			Switch,Key Type [DIRECT PLAY]
	SW723	92LSWiCHT1663T	AC			Switch,Key Type [DISC 1]
	SW724	92LSWiCHT1663T	AC			Switch,Key Type [DISC 2]
	SW725	92LSWiCHT1663T	AC			Switch,Key Type [DISC 3]
	SW726	92LSWiCHT1663T	AC			Switch,Key Type [DISC 4]
	SW727	92LSWiCHT1663T	AC			Switch,Key Type [DISC 5]
	SW728	92LSWiCHT1663T	AC			Switch,Key Type [OPEN/CLOSE]
	VR701	QSW-Z0013AWZZ	AF			Switch,Rotary Type [VOLUME]
	WTM901	QCNCW019EAWZZ	AB			Socket,5Pin

[11] CD MECHANISM PARTS



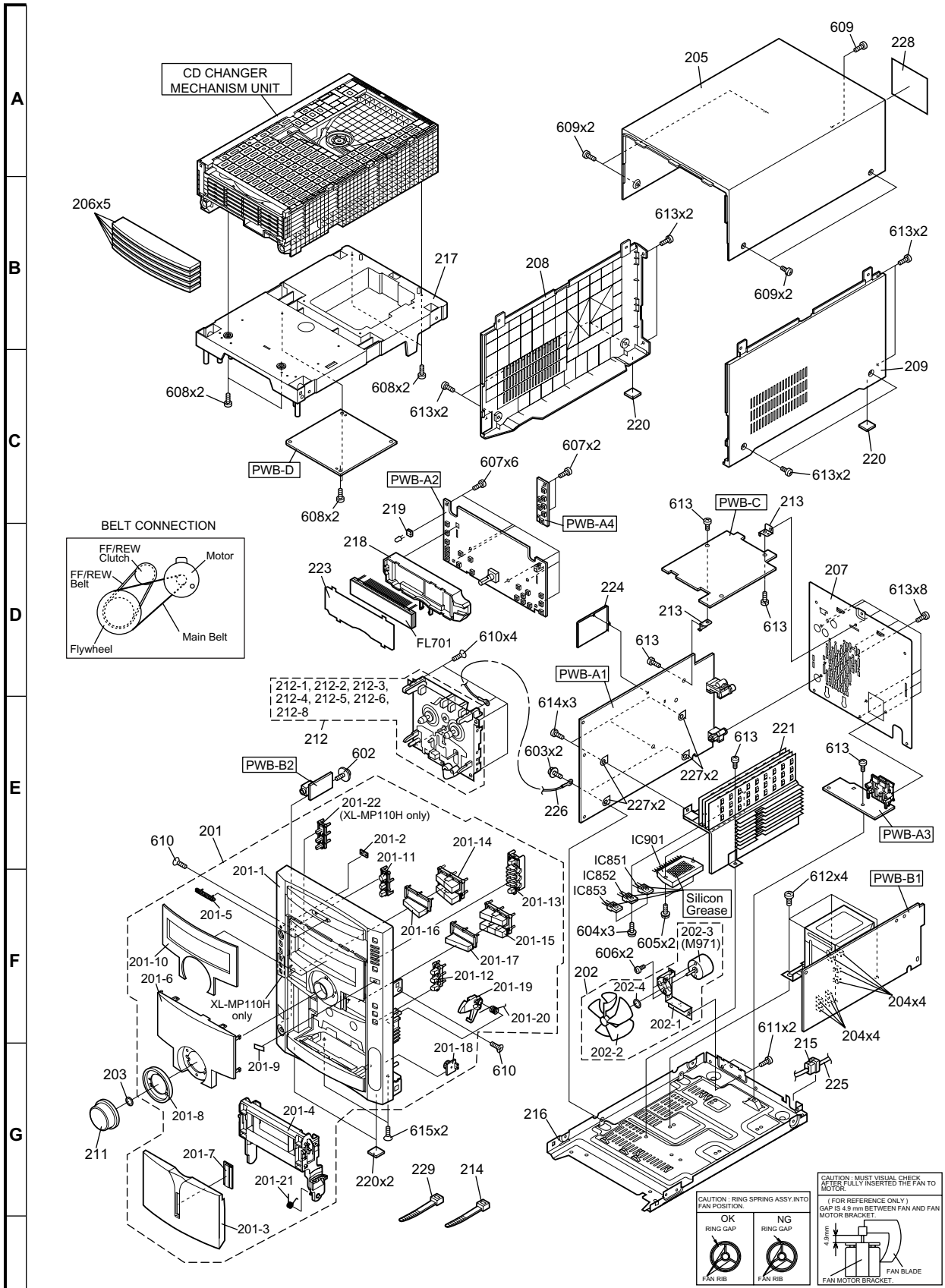
	NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
	[11] CD MECHANISM PARTS					
	301	NGERH0011AWZZ	AC			Gear,Middle
	302	NGERH0012AWZZ	AC			Gear,Drive
	304	NSFTM0020AWFW	AD			Shaft,Guide
	305	92LMCUSN1524A	AD			Cushion
⚠1	306	92LHPC1LFASY	BB			Pickup Unit Ass'y
	306- 1	--------	-			Pickup Unit (Not Replacement Item)
	306- 2	NGERR0043AFZZ	AC			Gear,Rack
	306- 3	MSPRC0961AFZZ	AA			Spring,Rack
	307	PCUSG0001AWSA	AD			Cushion
	308	PCUSG0004AWSA	AD			Cushion
	701	XBSSD26P06000	AA			Screw,M2.6x6mm
	703	XBBSD20P03000	AA			Screw,M2x3mm
	704	LX-WZ1070AFZZ	AA			Washer,M1.5xM3.8x0.25mm
	M1A	92LMTR5515CASY	AS			Motor with Chassis [Spindle]
	M2A	92LMTR1854BASY	AP			Motor with Gear [Sled]
	SW4	QSW-F9001AW01	AD			Switch,Leaf Type [Pickup In]

[12] CHANGER MECHANISM PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[12] CHANGER MECHANISM PARTS					
101	GCOVA1513AWZZ	AF			Disc Tray
102	GCOVA1514AWZZ	AF			Guide Tray
103	LANGG0008AWZZ	AD			Outer Tray Guide
104	LANGG0009AWZZ	AC			Inner Tray Guide
105	LCHSM0194AWZZ	AP			Main Base
106	LHLDZ9017AWZZ	AF			CD Mechanism Holder
107	LPLTP0014AWZZ	AK			Top Plate
108	LPLTP0015AWZZ	AG			Gear Plate
109	MHOLD5529ASY	AP			Up/Down Holder Ass'y
109- 1	LHLDM9001AWZZ	AD			Stabilizer
109- 2	LHLDZ9019AWM1	AK			Up/Down Holder Ass'y
109- 3	LPLTM0017AWZZ	AB			Stabilizer Plate
109- 4	LPLTMA001AWFW	AC			Plate
109- 5	PMAGF0003AWZZ	AF			Magnet
110	MLEVP0129AWZZ	AC			Tray Lock Lever
111	MLEVP0130AWZZ	AG			Gear Up/Down Board
112	MLEVP0131AWZZ	AD			Mechanism Up/Down Board (L)
113	MLEVP0132AWZZ	AD			Mechanism Up/Down Board (R)
114	MLEVP0133AWZZ	AC			Mechanism Clamp Board
115	MLEVP0134AWZZ	AD			L/R Joint Lever
116	MLEVP0135AWZZ	AC			Tray Set Lever
117	MLEVP0136AWZZ	AC			Mechanism Clamp Switch Lever
118	MLEVP0137AWZZ	AC			Mechanism Clamp Switch Arm
119	MLEVP0138AWZZ	AB			Inner Gear Up/Down Lever
120	MLEVP0139AWZZ	AC			Outer Gear Up/Down Lever
121	MSPRC0044AWFJ	AB			Shift Spring
122	MSPRD0191AWFJ	AC			Disc Stop Spring
123	MSPRD0192AWFJ	AB			Balance Spring
124	NGERH0176AWZZ	AF			Tray Big Gear
125	NGERH0177AWZZ	AC			Tray Front Gear A
126	NGERH0178AWZZ	AC			Tray Front Gear B
127	NGERH0179AWZZ	AC			Tray Rear Gear A
128	NGERH0180AWZZ	AB			Tray Rear Gear B
129	NGERH0181AWZZ	AC			Mechanism Clamp Gear A
130	NGERH0182AWZZ	AC			Mechanism Clamp Joint Gear
131	NGERH0183AWZZ	AC			Mechanism Clamp Board Gear
132	NGERH0184AWZZ	AC			Tray Rear Joint Gear A
133	NGERH0185AWZZ	AC			Tray Rear Joint Gear B
134	NGERH0186AWZZ	AC			Tray Rear Joint Gear C
135	NGERH0187AWZZ	AB			Tray Rear Drive Gear
136	NGERH0188AWZZ	AC			Tray Drive Gear
137	NGERH0189AWZZ	AB			Tray Front Drive Gear
138	NGERH0190AWZZ	AC			Tray Front Joint Gear
139	NGERH0191AWZZ	AE			Mode Big Gear
140	NGERH0192AWZZ	AC			G-Up/Down Gear A
141	NGERH0193AWZZ	AC			G-Up/Down Gear B
142	NGERH0194AWZZ	AB			Mechanism Up/Down Gear A
143	NGERH0195AWZZ	AC			Mechanism Up/Down Gear B
144	NGERH0196AWZZ	AC			Mechanism Clamp Switch Gear
145	NGERH0198AWZZ	AB			Reduction Gear A
146	NGERH0199AWZZ	AB			Reduction Gear B
147	NGERH0200AWZZ	AB			Reduction Gear C
148	NGERH0201AWZZ	AB			Reduction Gear D
149	NGERH0202AWZZ	AB			Up/Down Reduction Gear E
150	NGERH0203AWZZ	AB			Up/Down Reduction Gear F
151	NGERH0204AWZZ	AB			Tray Reduction Gear E
152	NSFTT0084AWFD	AD			Shaft,Main Base
801	LX-BZA006AWFD	AB			Screw,Special
802	LX-EZ0005AWFD	AA			Screw,Special
803	XEBSD20P10000	AA			Screw,M2x10mm
804	XEBSD30P10000	AA			Screw,M3x10mm
M1	92LMTR5529BASY	AD			Motor with Gear [Tray]
M2	92LMTR5529BASY	AD			Motor with Gear [Main Cam]
SW1	QSW-P9003AWZZ	AD			Switch,Push Type [CLAMP]
SW2	QSW-P9003AWZZ	AD			Switch,Push Type [TRAY SW1]
SW3	QSW-P9003AWZZ	AD			Switch,Push Type [TRAY SW2]
SW4	QSW-P9006AWZZ	AF			Switch,Push Type [DISC]

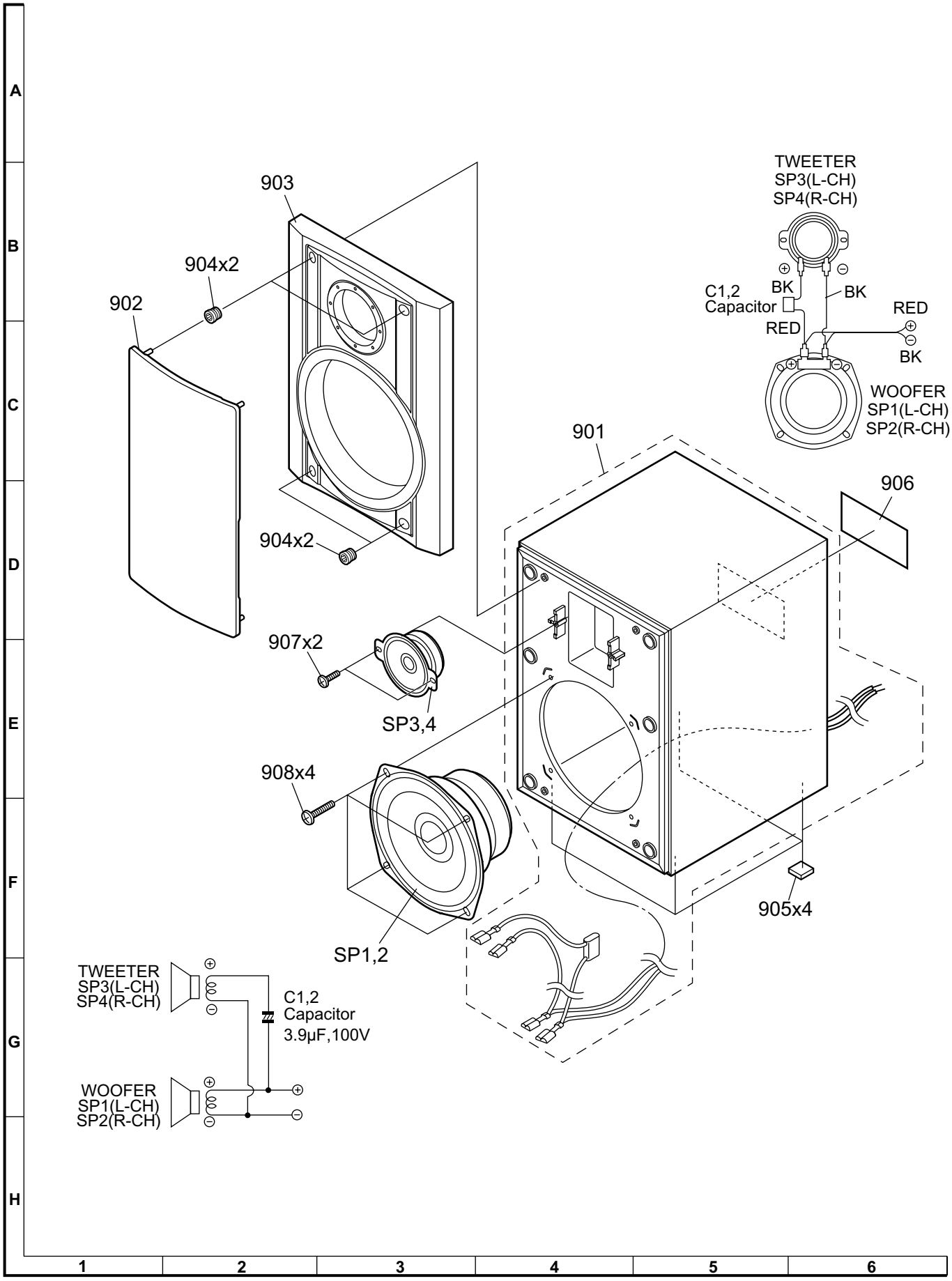
[13] CABINET PARTS



Note: Only the unit and consumale parts are supplied as parts supply for the Tape mechanism.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[13] CABINET PARTS					
201	CCABA6289AW01	BB			Front Panel Ass'y, [H]
201	CCABA6291AW01	BB			Front Panel Ass'y, [E]
201- 1	--------	-			Front Panel
201- 2	GCOVA1364AWSA	AB			Indicator,Timer
201- 3	GCOVAA096AWSA	AK			Panel,Cassette Cover,
201- 4	GDORF0117AWSA	AF			Holder,Cassette
201- 5	HBDGB1001AWSA	AD			Badge,SHARP
201- 6	HDECQA164AWSA	AH			Panel,FL Display, [H]
201- 6	HDECQA141AWSA	AH			Panel,FL Display, [E]
201- 7	HDECQA142AWSA	AC			Window,Cassette
201- 8	HDECQA143AWSA	AC			Indicator,Volume Knob
201- 9	HDECQA146AWSA	AB			Cover,Sensor
201-10	HDECQA147AWSA	AL			Decoration Panel
201-11	JKNBZA093AWSA	AD			Button,Power ON/STAND-BY
201-12	JKNBZA095AWSA	AD			Button,X-Bass
201-13	JKNBZA096AWSA	AE			Button,Disc Select
201-14	JKNBZA102AWSA	AF			Button,Function,A
201-15	JKNBZA098AWSA	AF			Button,Function,B
201-16	JKNBZA101AWSA	AD			Button,Play,A
201-17	JKNBZA100AWSA	AF			Button,Play,B
201-18	MLiFP0008AWZZ	AD			Damper
201-19	MLOKC0015AWZZ	AC			Lock Lever,Cassette
201-20	MSPRD0180AWFJ	AB			Spring,Cassette Lock Lever
201-21	MSPRD0197AWFJ	AC			Spring,Cassette Holder
201-22	JKNBZA094AWSA	AE			Button,RDS, [H Only]
202	CFANB5609AW01	AQ			Fan Motor Ass'y
202- 1	LANGK0434AWFW	AF			Bracket,Fan Motor
202- 2	NFANP0001AWZZ	AD			Rotary,Fan
202- 3	RMOTV0027AWZZ	AM			Motor,Air Cooling Fan(M971)
202- 4	92LCSPR1431C	AA			Spring,Ring
203	92LCSPR1431C	AA			Spring,Ring
⚠ 204	92LFSHOLD1652T	AB			Holder,Fuse
205	GCAB-A028AWSA	AS			Top Cabinet
206	GCOVAA085AWSA	AF			Disc Tray Cover
207	GiTARA271AWSA	AL			Rear Panel, [H]
207	GiTARA285AWSA	AL			Rear Panel, [E]
208	GiTASA100AWSA	AM			Side Panel,Left
209	GiTASA101AWSA	AM			Side Panel,Right
211	JKNBKA010AWSA	AK			Knob,VOLUME
212	KMECBA005AWZZ	AZ			Tape Mechanism Ass'y
212- 1	--------	-			Record/Playback/Erase Head
212- 2	--------	-			Motor with Pulley
212- 3	--------	-			Tape Mechanism PWB Ass'y
212- 4	92PF522-063	AZ			Clutch Ass'y Block
212- 5	--------	-			Belt,Main
212- 6	92PF514-133	AL			Pinch Roller Block,Right
212- 8	--------	-			Belt,FF/REW
213	LANGT0042AWFW	AC			Bracket,PWB Support
214	LBND-1011AWZZ	AA			Nylon Band
⚠ 215	LBSHC0002AWZZ	AD			Bushing,AC Power Supply Cord
216	LCHSMA027AWFW	AQ			Chassis,Main
217	LCHSZA007AWSA	AN			Chassis,Changer Unit
218	LHLDZ9023AWZZ	AD			Holder,FL Display
219	LHLDZA047AWZZ	AC			Holder,LED
220	PCUSG0022AWZZ	AB			Cushion,Leg
221	PRDARA068AWFW	AV			Heat Sink,Main
223	PSHEPA036AWZZ	AE			Edge Light Sheet
224	PSLDM3015AWFW	AD			Shield Plate
⚠ 225	QACCE0015AW00	AK			AC Power Supply Cord [H]
⚠ 225	QACCL0008AW00	AN			AC Power Supply Cord [E]
226	QCNWN1860AWZZ	AC			Lead Wire with Lug
227	QLUGP0001AWZZ	AC			Lug (LG2~5)
228	TSPC-A495AWZZ				Label,Specification, [H]
228	TSPC-A488AWZZ				Label,Specification, [E]
229	92LNBAND1318A	AA			Nylon Band,80mm
602	LX-EZ0010AWFD	AA			Screw,Special
603	LX-JZ0010AFFD	AA			Screw,M3x10mm
604	LX-JZ0036AWFD	AB			Screw,Special
605	LX-JZ0037AWFD	AB			Screw,M3x12mm
606	XBBSD20P04000	AA			Screw,M2x4mm
607	XEBSD26P08000	AA			Screw,M2.6x8mm
608	XEBSD30P10000	AA			Screw,M3x10mm
609	XEBSD30P12000	AA			Screw,M3x12mm
610	XESSD30P10000	AA			Screw,M3x10mm
611	XHBSD30P06000	AA			Screw,M3x6mm
612	XHBSD40P06000	AA			Screw,M4x6mm
613	XJBSD30P08000	AA			Screw,M3x8mm
614	XJBSF30P08000	AA			Screw,M3x8mm
615	XJSSD30P10000	AA			Screw,M3x10mm

[14] SPEAKER BOX PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[14] SPEAKER BOX PARTS					
901	GBOXSA079AW01	BF			Speaker Box Ass'y,
902	CWAKPA012AW01	AS			Net Frame Ass'y
903	HPNLSA036AWSB	AU			Front Panel
904	LHLDZ8001AWSA	AD			Catching Holder
905	PCUSGA020AWZZ	AB			Cushion,Foot
906	TSPC-A368AWZZ	AC			Label,Specification, [H]
906	TSPC-A450AWZZ	AC			Label,Specification, [E]
907	XEBSN30P10000	AA			Screw,M3x10mm
908	XEPSN40P16000	AC			Screw,M4x16mm
SP1,2	RSP-ZA092AWZZ	AY			Woofer
SP3,4	RSP-ZA093AWZZ	AS			Tweeter
[15] ACCESSORIES/PACKING PARTS					
1	92LBAG1460C1	AB			Polyethylene Bag,Accessories
2	92LFANT1535A	AF			FM Antenna
3	QANTL0005AWZZ	AG			AM Loop Antenna
4	RRMCGA041AWSA	AQ			Remote Control
5	SPAKAA065AWZZ	AM			Packing Add.,Unit,Left/Right
6	SPAKCA227AWZZ	AT			Packing Case, [H]
6	SPAKCA241AWZZ	AT			Packing Case, [E]
7	SPAKP0026AWZZ	AB			Polyethylene Bag,AC Cord [E Only]
8	SSAKH0094AWZZ	AE			Polyethylene Bag,Unit
9	TGAN-3170UMZZ	AE			Warranty Card, [E Only]
10	TiNSEA089AWZZ	AE			Operation Manual, [E]
10	TiNSZA143AWZZ	AQ			Operation Manual, [H]
13	TLABZ0605AWZZ	AB			Label,Saving Energy, [H Only]
14	TLABZ0607AWZZ	AB			Label,Energy (GEA), [H Only]
15	TLABZA248AWZZ	AD			Label,Pop, [E]
15	TLABZA253AWZZ	AD			Label,Pop, [H]
16	--------	-			Battery (Not Replacement Item)
17	SPAKAA066AWZZ	AR			Packing,Add.,Front Speaker,Top/Bottom
18	SPAKZA012AWZZ	AD			Sheet,Speaker
19	SSAKH0099AWZZ	AD			Polyethylene Bag,Speaker
[16] P.W.B. ASSEMBLY (Not Replacement Item)					
PWB-A	92LPWB6289MANS	-			Main(A1)/Display(A2)/Terminal(A3)/Switch(A4), [H]
PWB-A	92LPWB6291MANS	-			Main(A1)/Display(A2)/Terminal(A3)/Switch(A4), [E]
⚠ PWB-B	92LPWB6289PWRS	-			Power(B1)/Jack(B2), [H]
⚠ PWB-B	92LPWB6291PWRS	-			Power(B1)/Jack(B2), [E]
PWB-C	92LPWB6289TUNS	-			Tuner, [H]
PWB-C	92LPWB6291TUNS	-			Tuner, [E]
PWB-D	92LPWB6230CDUS	BH			CD MP3
PWB-E	QPWBF0027AWZZ	AD			CD Motor (PWB Only)
PWB-F	QPWBF1055AWZZ	AE			CD Changer Motor (PWB Only)
[17] OTHER SERVICE PARTS					
	UDSKA0004AFZZ	AZ			CD Optical Pickup Lens Cleaner Disc

■INDEX

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
【 C 】				
CCABA6289AW01	13-201	BB		
CCABA6291AW01	13-201	BB		
CFANB5609AW01	13-202	AQ		
CWAKPA012AW01	14-902	AS		
【 G 】				
GBOXSA079AW01	14-901	BF		
GCAB-A028AWSA	13-205	AS		
GCOVA1364AWSA	13-201- 2	AB		
GCOVA1513AWZZ	12-101	AF		
GCOVA1514AWZZ	12-102	AF		
GCOVAA085AWSA	13-206	AF		
GCOVAA096AWSA	13-201- 3	AK		
GDORF0117AWSA	13-201- 4	AF		
GiTARA271AWSA	13-207	AL		
GiTARA285AWSA	13-207	AL		
GiTASA100AWSA	13-208	AM		
GiTASA101AWSA	13-209	AM		
【 H 】				
HBDGB1001AWSA	13-201- 5	AD		
HDECQA141AWSA	13-201- 6	AH		
HDECQA142AWSA	13-201- 7	AC		
HDECQA143AWSA	13-201- 8	AC		
HDECQA146AWSA	13-201- 9	AB		
HDECQA147AWSA	13-201-10	AL		
HDECQA164AWSA	13-201- 6	AH		
HPNLSA036AWSB	14-903	AU		
【 J 】				
JKNBKA010AWSA	13-211	AK		
JKNBZA093AWSA	13-201-11	AD		
JKNBZA094AWSA	13-201-22	AE		
JKNBZA095AWSA	13-201-12	AD		
JKNBZA096AWSA	13-201-13	AE		
JKNBZA098AWSA	13-201-15	AF		
JKNBZA100AWSA	13-201-17	AF		
JKNBZA101AWSA	13-201-16	AD		
JKNBZA102AWSA	13-201-14	AF		
【 K 】				
KMECBA005AWZZ	13-212	AZ		
【 L 】				
LANGG0008AWZZ	12-103	AD		
LANGG0009AWZZ	12-104	AC		
LANGK0434AWFW	13-202- 1	AF		
LANGT0042AWFW	13-213	AC		
LBND-1011AWZZ	13-214	AA		
LBSHC0002AWZZ	13-215	AD		
LCHSM0194AWZZ	12-105	AP		
LCHSMA027AWFW	13-216	AQ		
LCHSZA007AWSA	13-217	AN		
LHLDM9001AWZZ	12-109- 1	AD		
LHLDZ8001AWSA	14-904	AD		
LHLDZ9017AWZZ	12-106	AF		
LHLDZ9019AWM1	12-109- 2	AK		
LHLDZ9023AWZZ	13-218	AD		
LHLDZA047AWZZ	13-219	AC		
LPLTM0017AWZZ	12-109- 3	AB		
LPLTMA001AWFW	12-109- 4	AC		
LPLTP0014AWZZ	12-107	AK		
LPLTP0015AWZZ	12-108	AG		
LX-BZA006AWFD	12-801	AB		
LX-EZ0005AWFD	12-802	AA		
LX-EZ0010AWFD	13-602	AA		
LX-JZ0010AFFD	13-603	AA		
LX-JZ0036AWFD	13-604	AB		
LX-JZ0037AWFD	13-605	AB		
LX-WZ1070AFZZ	11-704	AA		
【 M 】				
MHOLD5529ASY	12-109	AP		
MLEVP0129AWZZ	12-110	AC		
MLEVP0130AWZZ	12-111	AG		
MLEVP0131AWZZ	12-112	AD		
MLEVP0132AWZZ	12-113	AD		
MLEVP0133AWZZ	12-114	AC		
MLEVP0134AWZZ	12-115	AD		
MLEVP0135AWZZ	12-116	AC		
MLEVP0136AWZZ	12-117	AC		
MLEVP0137AWZZ	12-118	AC		
MLEVP0138AWZZ	12-119	AB		
MLEVP0139AWZZ	12-120	AC		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
MLiFP0008AWZZ	13-201-18	AD		
MLOKC0015AWZZ	13-201-19	AC		
MSPRC0044AWFJ	12-121	AB		
MSPRC0961AFZZ	11-306- 3	AA		
MSPRD0180AWFJ	13-201-20	AB		
MSPRD0191AWFJ	12-122	AC		
MSPRD0192AWFJ	12-123	AB		
MSPRD0197AWFJ	13-201-21	AC		
【 N 】				
NFANP0001AWZZ	13-202- 2	AD		
NGERH0011AWZZ	11-301	AC		
NGERH0012AWZZ	11-302	AC		
NGERH0176AWZZ	12-124	AF		
NGERH0177AWZZ	12-125	AC		
NGERH0178AWZZ	12-126	AC		
NGERH0179AWZZ	12-127	AC		
NGERH0180AWZZ	12-128	AB		
NGERH0181AWZZ	12-129	AC		
NGERH0182AWZZ	12-130	AC		
NGERH0183AWZZ	12-131	AC		
NGERH0184AWZZ	12-132	AC		
NGERH0185AWZZ	12-133	AC		
NGERH0186AWZZ	12-134	AC		
NGERH0187AWZZ	12-135	AB		
NGERH0188AWZZ	12-136	AC		
NGERH0189AWZZ	12-137	AB		
NGERH0190AWZZ	12-138	AC		
NGERH0191AWZZ	12-139	AE		
NGERH0192AWZZ	12-140	AC		
NGERH0193AWZZ	12-141	AC		
NGERH0194AWZZ	12-142	AB		
NGERH0195AWZZ	12-143	AC		
NGERH0196AWZZ	12-144	AC		
NGERH0198AWZZ	12-145	AB		
NGERH0199AWZZ	12-146	AB		
NGERH0200AWZZ	12-147	AB		
NGERH0201AWZZ	12-148	AB		
NGERH0202AWZZ	12-149	AB		
NGERH0203AWZZ	12-150	AB		
NGERH0204AWZZ	12-151	AB		
NGERR0043AFZZ	11-306- 2	AC		
NSFTM0020AWFW	11-304	AD		
NSFTT0084AWFD	12-152	AD		
【 P 】				
PCUSG0001AWSA	11-307	AD		
PCUSG0004AWSA	11-308	AD		
PCUSG0022AWZZ	13-220	AB		
PCUSGA020AWZZ	14-905	AB		
PMAGF0003AWZZ	12-109- 5	AF		
PRDARA068AWFW	13-221	AV		
PSHEPA036AWZZ	13-223	AE		
PSLDM3015AWFW	13-224	AD		
【 Q 】				
QACCE0015AW00	13-225	AK		
QACCL0008AW00	13-225	AN		
QANTL0005AWZZ	15-3	AG		
QCNCM010PAWZZ	10-CNP303	AD		
QCNCM035HAWZZ	10-CNP801	AB		
QCNCM049BAWZZ	10-CNP805	AC		
QCNCM704GAFZZ	10-CNP6	AC		
QCNCM705GAFZZ	10-CNP101	AB		
QCNCW010PAWZZ	10-CNS303	AE		
QCNCW012EAWZZ	10-CNP708	AC		
QCNCW019EAWZZ	10-WTM901	AB		
QCNCWYP07AWZZ	10-CNP706A	AC		
〃	10-CNP706B	AC		
QCNCWYP16AWZZ	10-CNP1	AD		
QCNCWYP25AWZZ	10-CNP701A	AE		
〃	10-CNP701B	AE		
QCNCWYP29AWZZ	10-CNP701A	AD		
〃	10-CNP701B	AD		
QCNCWZO11AWZZ	10-CNB1	AC		
QCNCWZX11AWZZ	10-CNP4	AC		
QCNCWZX14AWZZ	10-CNP704	AD		
QCNCWZY07AWZZ	10-CNP702	AC		
QCNCWZY14AWZZ	10-CNP7	AD		
QCNWN1860AWZZ	13-226	AC		
QCNWN2699AWPZ	10-CNW3	AF		
QCNWN2700AWPZ	10-FFC1	AE		

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QCNWN2701AWPZ	10-FFC4	AD		
QCNWN2740AWPZ	10-FFC702	AD		
QCNWN2741AWPZ	10-FFC7	AE		
QCNWN2745AWPZ	10-FFC701	AE		
QCNWN2747AWPZ	10-Bi703	AB		
QCNWN2756AWPZ	10-Bi902	AF		
QCNWNA043AWPZ	10-FFC706	AD		
QCNWNA056AWPZ	10-Bi802	AF		
QCNWNA057AWPZ	10-CNS971	AC		
QCNWNA277AWPZ	10-FW901	AC		
QCNWNA310AWPZ	10-Bi801	AH		
QCNWNA316AWPZ	10-FFC701	AE		
QCNWNA317AWPZ	10-Bi601	AF		
QFS-D202CAWNi	10-F803	AC		
〃	10-F804	AC		
QFS-D402CAWNi	10-F801	AC		
〃	10-F802	AC		
QJAKM0004AWZZ	10-JK701	AK		
QLUGP0001AWZZ	13-227	AC		
QPWBF0027AWZZ	16-PWB-E	AD		
QPWBF1055AWZZ	16-PWB-F	AE		
QSŌCJ0224AWZZ	10-JK690	AC		
QSŌCJA010AWZZ	10-JK953	AC		
QSWF9001AW01	10-SW1A	AD		
QSW-F9001AW01	11-SW4	AD		
QSW-P9003AWZZ	10-SW1	AD		
〃	10-SW2	AD		
〃	10-SW3	AD		
〃	12-SW1	AD		
〃	12-SW2	AD		
〃	12-SW3	AD		
QSW-P9006AWZZ	10-SW4	AF		
〃	12-SW4	AF		
QSW-Z0013AWZZ	10-VR701	AF		
QTANA0426AWZZ	10-SŌ901	AE		
QTANC0105AWZZ	10-SŌ301	AE		
【 R 】				
RBLN-0002AWZZ	6-L341	AE		
RBLN-0061TAZZ	6-FB1	AB		
〃	6-FB2	AB		
RC-EZ0004AWZZ	8-C6	AD		
RC-EZ0112AWZZ	8-C921	AH		
〃	8-C922	AH		
RC-EZD105AF1H	8-C700	AB		
〃	8-C707	AB		
RC-EZD335AF1H	8-C719	AB		
RC-EZD476AF1C	8-C721	AC		
RCiLA0052AWZZ	5-T303	AE		
RCiLB0067AWZZ	5-T306	AD		
RCiLi0019AWZZ	5-T351	AD		
RCiLZA016AWZZ	6-L841	AF		
RCiLZA017AWZZ	6-L901	AB		
〃	6-L902	AB		
〃	6-L920	AB		
〃	6-L921	AB		
RC-KZ002LAWZZ	8-C844	AC		
RCRM-0047AWZZ	7-XL1	AE		
RCRSP0018AWZZ	7-XT21	AG		
RCRSP0019AWZZ	7-X352	AF		
RCRSP0029AWZZ	7-XL700	AF		
RFiLA0009AWZZ	4-CF352	AE		
RFiLF0003AWZZ	4-CF351	AK		
RFiLF0072AFZZ	4-CF301	AG		
〃	4-CF302	AG		
RFiLL0001AWZZ	6-L354	AE		
RH-iXA058AWZZ	1-iC701	AY		
RMŌTV0027AWZZ	10-M971	AM		
〃	13-202- 3	AM		
RRLYD0016AWZZ	10-RL914	AH		
RRLYD0018AWZZ	10-RL841	AH		
RRMCGA041AWSA	15-4	AQ		
RSP-ZA092AWZZ	10-SP1	AY		
〃	10-SP2	AY		
〃	14-SP1,2	AY		
RSP-ZA093AWZZ	10-SP3	AS		
〃	10-SP4	AS		
〃	14-SP3,4	AS		
RTRNP0313AWZZ	5-PT841	AN		
RTRNP0507AWZZ	5-PT801	BB		
RTUNS0027AWZZ	10-FE301	AU		
【 S 】				
SPAKAA065AWZZ	15-5	AM		

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SPAKAA066AWZZ	15-17	AR		
SPAKCA227AWZZ	15-6	AT		
SPAKCA241AWZZ	15-6	AT		
SPAKP0026AWZZ	15-7	AB		
SPAKZA012AWZZ	15-18	AD		
SSAKH0094AWZZ	15-8	AE		
SSAKH0099AWZZ	15-19	AD		
【 T 】				
TGAN-3170UMZZ	15-9	AE		
TiNSEA089AWZZ	15-10	AE		
TiNSZA143AWZZ	15-10	AQ		
TLABZ0605AWZZ	15-13	AB		
TLABZ0607AWZZ	15-14	AB		
TLABZA248AWZZ	15-15	AD		
TLABZA253AWZZ	15-15	AD		
TSPC-A368AWZZ	14-906	AC		
TSPC-A450AWZZ	14-906	AC		
TSPC-A488AWZZ	13-228			
TSPC-A495AWZZ	13-228			
【 U 】				
UDSKA0004AFZZ	17-	AZ		
【 V 】				
VCCCCY1HH101J	8-C50	AA		
〃	8-C51	AA		
〃	8-C52	AA		
〃	8-C53	AA		
〃	8-C55	AA		
〃	8-C56	AA		
VCCCCY1HH120J	8-C381	AA		
VCCCCY1HH150J	8-C330	AA		
〃	8-C382	AA		
VCCCCY1HH151J	8-C722	AA		
VCCCCY1HH180J	8-C704	AA		
〃	8-C705	AA		
VCCCCY1HH181J	8-C104	AA		
VCCCCY1HH220J	8-C334	AA		
〃	8-C355	AA		
〃	8-CT23	AA		
〃	8-CT25	AA		
VCCCCY1HH270J	8-C369	AA		
VCCCCY1HH3R0C	8-C905	AA		
〃	8-C906	AA		
VCCSPA1HL101J	8-C710	AA		
〃	8-C711	AA		
VCEAZA0JW108M	8-C10	AC		
〃	8-C701	AC		
〃	8-C841	AC		
VCEAZA1AW107M	8-C1	AB		
〃	8-C3	AB		
〃	8-C11	AB		
〃	8-C20	AB		
〃	8-C27	AB		
〃	8-C29	AB		
〃	8-C36	AB		
〃	8-C57	AB		
〃	8-C396	AB		
〃	8-C398	AB		
VCEAZA1AW227M	8-C134	AC		
〃	8-C701	AC		
VCEAZA1AW476M	8-C8	AB		
〃	8-CT21	AB		
〃	8-CT31	AB		
VCEAZA1AW477M	8-C22	AC		
〃	8-C46	AC		
VCEAZA1CW106M	8-C352	AC		
〃	8-CT32	AC		
VCEAZA1CW107M	8-C111	AC		
〃	8-C112	AC		
〃	8-C141	AC		
〃	8-C321	AC		
VCEAZA1CW226M	8-C909	AC		
〃	8-C910	AC		
VCEAZA1CW227M	8-C601	AC		
VCEAZA1CW476M	8-C391	AB		
〃	8-C394	AB		
VCEAZA1EW226M	8-C125	AB		
〃	8-C126	AB		
〃	8-C133	AB		
〃	8-C603	AB		
〃	8-C863	AB		
VCEAZA1EW335M	8-C960	AB		
VCEAZA1EW476M	8-C5	AB		

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〃	8-C117	AB		
〃	8-C118	AB		
〃	8-C131	AB		
〃	8-C132	AB		
〃	8-C140	AB		
VCEAZA1EW477M	8-C842	AD		
VCEAZA1HW104M	8-C946	AB		
VCEAZA1HW105M	8-C25	AB		
〃	8-C35	AB		
〃	8-C358	AB		
〃	8-C367	AB		
〃	8-C368	AB		
〃	8-C370	AB		
〃	8-C371	AB		
〃	8-C372	AB		
〃	8-C393	AB		
〃	8-C613	AB		
〃	8-C614	AB		
〃	8-C617	AB		
〃	8-C618	AB		
〃	8-C619	AB		
〃	8-C620	AB		
〃	8-C621	AB		
〃	8-C622	AB		
〃	8-C623	AB		
〃	8-C624	AB		
〃	8-C641	AB		
〃	8-C642	AB		
VCEAZA1HW106M	8-C41	AB		
〃	8-C42	AB		
〃	8-C380	AB		
〃	8-C865	AB		
〃	8-C931	AB		
VCEAZA1HW224M	8-C901	AB		
〃	8-C902	AB		
VCEAZA1HW225M	8-C357	AB		
〃	8-C362	AB		
〃	8-C364	AB		
〃	8-C639	AB		
VCEAZA1HW335M	8-C143	AB		
VCEAZA1HW475M	8-C615	AB		
〃	8-C616	AB		
VCEAZA1HW476M	8-C802	AB		
〃	8-C803	AB		
〃	8-C925	AB		
〃	8-C930	AB		
VCEAZA1JW106M	8-C915	AB		
〃	8-C916	AB		
VCEAZA1JW107M	8-C913	AC		
〃	8-C914	AC		
VCEAZA1JW227M	8-C804	AD		
VCEAZA1VW107M	8-C801	AC		
VCEAZA2AW226M	8-C805	AC		
VCEAZW1EW338M	8-C856	AG		
VCFYFA1HA124J	8-C607	AL		
〃	8-C608	AL		
VCFYFA1HA154J	8-C605	AB		
〃	8-C606	AB		
VCFYFA1HA224J	8-C926	AC		
〃	8-C927	AC		
〃	8-C928	AC		
〃	8-C929	AC		
〃	8-C932	AC		
VCKYBT1HB101K	8-C383	AA		
VCKYBT1HB103K	8-C58	AB		
VCKYBT1HB181K	8-C103	AA		
VCKYCY1CB104K	8-C19	AB		
〃	8-C21	AB		
〃	8-C23	AB		
〃	8-C24	AB		
〃	8-C28	AB		
〃	8-C30	AB		
〃	8-C31	AB		
〃	8-C32	AB		
〃	8-C33	AB		
〃	8-C34	AB		
〃	8-C37	AB		
〃	8-C40	AB		
〃	8-C45	AB		
VCKYCY1CB563K	8-C15	AB		
〃	8-C17	AB		
VCKYCY1EF223Z	8-C49	AB		

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〃	8-C121	AB		
〃	8-C135	AB		
〃	8-C323	AB		
〃	8-C332	AB		
〃	8-C341	AB		
〃	8-C342	AB		
〃	8-C345	AB		
〃	8-C346	AB		
〃	8-C347	AB		
〃	8-C350	AB		
〃	8-C351	AB		
〃	8-C353	AB		
〃	8-C354	AB		
〃	8-C361	AB		
〃	8-C363	AB		
〃	8-C387	AB		
〃	8-C395	AB		
〃	8-C397	AB		
〃	8-C399	AB		
〃	8-C602	AB		
〃	8-C702	AB		
〃	8-C706	AB		
〃	8-C720	AB		
〃	8-C911	AB		
〃	8-C912	AB		
〃	8-CT22	AB		
〃	8-CT27	AB		
〃	8-CT28	AB		
〃	8-CT29	AB		
〃	8-CT30	AB		
VCKYCY1EF473Z	8-C14	AB		
〃	8-C26	AB		
〃	8-C47	AB		
〃	8-C331	AB		
〃	8-C723	AB		
〃	8-C724	AB		
VCKYCY1HB102K	8-C302	AA		
〃	8-C356	AA		
〃	8-C366	AA		
〃	8-C384	AA		
〃	8-C388	AA		
〃	8-C392	AA		
〃	8-C716	AA		
〃	8-C717	AA		
〃	8-C903	AA		
〃	8-C904	AA		
VCKYCY1HB103K	8-C9	AA		
〃	8-C13	AA		
〃	8-C16	AA		
〃	8-C18	AA		
〃	8-C48	AA		
〃	8-C348	AA		
〃	8-C385	AA		
〃	8-C718	AA		
VCKYCY1HB221K	8-C651	AA		
〃	8-C652	AA		
〃	8-C653	AA		
VCKYCY1HB222K	8-C625	AA		
〃	8-C626	AA		
VCKYCY1HB271K	8-C123	AA		
〃	8-C124	AA		
VCKYCY1HB331K	8-C386	AA		
VCKYCY1HB332K	8-C129	AA		
〃	8-C130	AA		
〃	8-C611	AA		
〃	8-C612	AA		
VCKYCY1HB391K	8-C690	AA		
〃	8-C691	AA		
VCKYCY1HB471K	8-C907	AA		
〃	8-C908	AA		
VCKYCY1HB472K	8-C12	AA		
VCKYCY1HB561K	8-C105	AA		
〃	8-C106	AA		
〃	8-C115	AA		
〃	8-C116	AA		
〃	8-C335	AA		
〃	8-CT26	AA		
VCKYPA1HB102K	8-C7	AA		
〃	8-C942	AA		
〃	8-C943	AA		
〃	8-C952	AA		
〃	8-C953	AA		

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VCKYPA1HB103K	8-C4	AA		
VCKYPA1HB122K	8-C950	AA		
〃	8-C951	AA		
VCKYPA1HB152K	8-C43	AA		
〃	8-C44	AA		
VCKYPA1HF223Z	8-C861	AB		
VCKYTV1HB102K	8-C2A	AA		
VCKYTV1HF223Z	8-C54A	AA		
VCKZPA1HF223Z	8-C934	AA		
〃	8-C935	AA		
〃	8-C936	AA		
〃	8-C937	AA		
〃	8-C938	AA		
〃	8-C939	AA		
〃	8-C940	AA		
〃	8-C941	AA		
VCQPKA2AA822J	8-C138	AA		
VCQYKA1HM104K	8-C806	AB		
〃	8-C807	AB		
〃	8-C808	AB		
〃	8-C809	AB		
〃	8-C851	AB		
〃	8-C854	AB		
〃	8-C855	AB		
〃	8-C858	AB		
〃	8-C859	AB		
〃	8-C864	AB		
〃	8-C954	AB		
〃	8-C955	AB		
VCQYKA1HM393K	8-C139	AB		
VCQYKA1HM473K	8-C137	AB		
〃	8-C843	AB		
VCTYBT1EF223Z	8-C359	AA		
〃	8-C390	AA		
VCTYPA1CX153K	8-C373	AA		
〃	8-C374	AA		
VCTYPA1CX223K	8-C127	AA		
〃	8-C128	AA		
〃	8-C365	AA		
VCTYPA1EX333K	8-C113	AA		
〃	8-C114	AA		
VHCSVC347S/-1	3-VD301	AG		
VHD1N4148H/-1	3-D301	AA		
〃	3-D302	AA		
〃	3-D702	AA		
〃	3-D704	AA		
〃	3-D713	AA		
〃	3-D714	AA		
〃	3-D851	AA		
〃	3-D852	AA		
〃	3-D855	AA		
〃	3-D856	AA		
〃	3-D857	AA		
〃	3-D858	AA		
〃	3-D859	AA		
〃	3-D860	AA		
〃	3-D905	AA		
〃	3-D906	AA		
〃	3-D907	AA		
〃	3-D911	AA		
〃	3-D912	AA		
VHDD5SBA60F-1	3-D802	AH		
VHDDS1N404S-1	3-D805	AB		
〃	3-D806	AB		
〃	3-D842	AB		
〃	3-D843	AB		
〃	3-D844	AB		
〃	3-D845	AB		
〃	3-D853	AB		
VHDKDS160//-1	3-D705	AB		
〃	3-D706	AB		
〃	3-D707	AB		
〃	3-D708	AB		
〃	3-D709	AB		
〃	3-D711	AB		
〃	3-D712	AB		
VHDKDS184//-1	3-D1	AB		
VHDRL204F//-1	3-D803	AC		
〃	3-D804	AC		
VHEDZ120BSB-1	3-ZD854	AB		
VHEDZ150BSB-1	3-ZD853	AB		
VHEDZ300BSB-1	3-ZD803	AB		

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VHEDZ5R1BSB-1	3-ZD351	AC		
VHEDZ6R2BSA-1	3-ZD801	AB		
〃	3-ZD855	AB		
VHEDZ6R8BSA-1	3-ZD802	AC		
VHEDZ8R2BSB-1	3-ZD852	AB		
VHiAN7345K/-1	1-iC101	AM		
VHiKiA7805AP1	1-iC853	AF		
VHiKiA7810AP1	1-iC852	AF		
VHiKiA7812AP1	1-iC851	AF		
VHiKiA78L05-1	1-iC854	AF		
VHiLA1832S/-1	1-iC303	AN		
VHiLA6261//-1	1-iC2	AN		
VHiLC72131/-1	1-iC302	AP		
VHiLC72723/-1	1-iCT21	AR		
VHiLC75341/-1	1-iC601	AM		
VHiLC78690E-1	1-iC1	BE		
VHiSTK43207-1	1-iC901	AV		
VHLK2013TH2E1	10-RX701	AG		
VHPGP1S094HCZ	10-RX1	AF		
VHPSLR343VC3F	3-LED701	AC		
VP-DH101K0000	6-L351	AB		
〃	6-L352	AB		
〃	6-L701	AB		
VP-DH2R2K0000	6-L342	AB		
〃	6-L702	AB		
〃	6-L903	AB		
VP-MK331K0000	6-L103	AB		
VP-XH2R2K0000	6-LT21	AB		
〃	6-LT22	AB		
VRD-RT2HD102J	9-R942	AA		
〃	9-R943	AA		
〃	9-R957	AA		
〃	9-R958	AA		
VRD-RT2HD221J	9-R391	AA		
〃	9-R392	AA		
VRD-RT2HD222J	9-R808	AA		
VRD-RT2HD223J	9-R925	AA		
VRD-RT2HD681J	9-R968	AA		
VRD-RT2HD820J	9-R142	AA		
VRD-RT2HD822J	9-R965	AA		
〃	9-R966	AA		
VRD-ST2CD102J	9-R9	AA		
〃	9-R26	AA		
〃	9-R35	AA		
〃	9-R40	AA		
〃	9-R41	AA		
〃	9-R42	AA		
〃	9-R370	AA		
〃	9-R601	AA		
〃	9-R602	AA		
〃	9-R603	AA		
〃	9-R703	AA		
〃	9-R704	AA		
〃	9-R705	AA		
〃	9-R716	AA		
〃	9-R718	AA		
〃	9-R719	AA		
〃	9-R720	AA		
〃	9-R721	AA		
〃	9-R722	AA		
〃	9-R723	AA		
〃	9-R724	AA		
〃	9-R725	AA		
〃	9-R739	AA		
〃	9-R740	AA		
〃	9-R742	AA		
〃	9-R743	AA		
〃	9-R795	AA		
〃	9-R842	AA		
〃	9-R949	AA		
〃	9-RD03	AA		
〃	9-RD20	AA		
VRD-ST2CD103J	9-R12	AA		
〃	9-R13	AA		
〃	9-R138	AA		
〃	9-R641	AA		
〃	9-R852	AA		
VRD-ST2CD104J	9-R25	AA		
〃	9-R801	AA		
VRD-ST2CD123J	9-R803	AA		
VRD-ST2CD152J	9-R944	AA		
〃	9-R945	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRD-ST2CD153J	9-R111	AA		
〃	9-R947	AA		
VRD-ST2CD1R0J	9-R29	AA		
VRD-ST2CD221J	9-R858	AA		
VRD-ST2CD222J	9-RD05	AA		
〃	9-RD15	AA		
VRD-ST2CD223J	9-R386	AA		
〃	9-R853	AA		
〃	9-R854	AA		
〃	9-R859	AA		
VRD-ST2CD224J	9-R136	AA		
〃	9-R137	AA		
〃	9-R841	AA		
VRD-ST2CD271J	9-R62	AA		
VRD-ST2CD272J	9-RD06	AA		
〃	9-RD16	AA		
VRD-ST2CD330J	9-R17	AA		
VRD-ST2CD331J	9-R618	AA		
〃	9-R619	AA		
〃	9-R765	AA		
VRD-ST2CD332J	9-R113	AA		
〃	9-R114	AA		
VRD-ST2CD333J	9-R57	AA		
VRD-ST2CD392J	9-R66	AA		
〃	9-R358	AA		
VRD-ST2CD470J	9-R7	AA		
VRD-ST2CD472J	9-R141	AA		
〃	9-R778	AA		
VRD-ST2CD473J	9-R775	AA		
〃	9-R802	AA		
〃	9-R806	AA		
〃	9-R843	AA		
VRD-ST2CD560J	9-R115	AA		
〃	9-R116	AA		
VRD-ST2CD561J	9-R726	AA		
VRD-ST2CD562J	9-R10	AA		
〃	9-R384	AA		
〃	9-R387	AA		
〃	9-R789	AA		
VRD-ST2CD563J	9-R935	AA		
〃	9-R936	AA		
VRD-ST2CD680J	9-R970	AA		
〃	9-R971	AA		
VRD-ST2CD681J	9-R23	AA		
〃	9-R24	AA		
VRD-ST2CD682J	9-R11	AA		
〃	9-R19	AA		
〃	9-R21	AA		
〃	9-R22	AA		
VRD-ST2CD820J	9-R27	AA		
VRD-ST2CD822J	9-R20	AA		
VRD-ST2EE101J	9-R807	AA		
VRD-ST2EE151J	9-R149	AA		
〃	9-R382	AA		
VRD-ST2EE1R0J	9-R53	AA		
〃	9-R54	AA		
VRD-ST2EE1R5J	9-R783	AA		
〃	9-R784	AA		
VRD-ST2EE221J	9-R158	AA		
〃	9-R860	AA		
VRD-ST2EE223J	9-R927	AA		
〃	9-R928	AA		
VRD-ST2EE470J	9-R804	AA		
〃	9-R805	AA		
VRD-ST2EE4R7J	9-R940	AA		
〃	9-R941	AA		
VRD-ST2EE6R8J	9-R952	AA		
〃	9-R953	AA		
〃	9-R954	AA		
〃	9-R955	AA		
VRD-ST2EE820J	9-R844	AA		
VRG-ST2EC101J	9-R921	AB		
〃	9-R922	AB		
VRN-VV3AAR10J	9-R913	AB		
〃	9-R914	AB		
VRN-VV3DAR22J	9-R917	AC		
〃	9-R918	AC		
〃	9-R919	AC		
〃	9-R920	AC		
VRS-CY1JB000J	9-	AA		
〃	9-R05	AA		
〃	9-R06	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	9-R47	AA		
〃	9-R24A	AA		
〃	9-R301	AA		
〃	9-R688	AA		
〃	9-R799	AA		
VRS-CY1JB100J	9-R8	AA		
VRS-CY1JB101J	9-R132	AA		
〃	9-R133	AA		
〃	9-R151	AA		
〃	9-R154	AA		
〃	9-R798	AA		
VRS-CY1JB102J	9-R33	AA		
〃	9-R34	AA		
〃	9-R36	AA		
〃	9-R37	AA		
〃	9-R38	AA		
〃	9-R39	AA		
〃	9-R152	AA		
〃	9-R153	AA		
〃	9-R352	AA		
〃	9-R356	AA		
〃	9-R372	AA		
〃	9-R373	AA		
〃	9-R374	AA		
〃	9-R376	AA		
〃	9-R378	AA		
〃	9-R393	AA		
〃	9-R700	AA		
〃	9-R701	AA		
〃	9-R702	AA		
〃	9-R706	AA		
〃	9-R707	AA		
〃	9-R708	AA		
〃	9-R709	AA		
〃	9-R712	AA		
〃	9-R715	AA		
〃	9-R717	AA		
〃	9-R731	AA		
〃	9-R735	AA		
〃	9-R736	AA		
〃	9-R737	AA		
〃	9-R738	AA		
〃	9-R794	AA		
〃	9-R903	AA		
〃	9-R904	AA		
〃	9-R909	AA		
〃	9-R910	AA		
〃	9-R923	AA		
〃	9-R924	AA		
〃	9-RD13	AA		
〃	9-RT27	AA		
〃	9-RT28	AA		
〃	9-RT29	AA		
〃	9-RT30	AA		
VRS-CY1JB103J	9-R14	AA		
〃	9-R15	AA		
〃	9-R50	AA		
〃	9-R51	AA		
〃	9-R134	AA		
〃	9-R135	AA		
〃	9-R139	AA		
〃	9-R146	AA		
〃	9-R147	AA		
〃	9-R336	AA		
〃	9-R365	AA		
〃	9-R381	AA		
〃	9-R623	AA		
〃	9-R625	AA		
〃	9-R642	AA		
〃	9-R744	AA		
〃	9-R745	AA		
〃	9-R747	AA		
〃	9-R749	AA		
〃	9-R750	AA		
〃	9-R751	AA		
〃	9-R759	AA		
〃	9-R769	AA		
〃	9-R770	AA		
〃	9-R771	AA		
〃	9-R772	AA		
〃	9-R773	AA		
〃	9-R774	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	9-R785	AA		
〃	9-R791	AA		
〃	9-R793	AA		
〃	9-RD09	AA		
〃	9-RD26	AA		
〃	9-RT21	AA		
〃	9-RT25	AA		
〃	9-RT31	AA		
VRS-CY1JB104J	9-R117	AA		
〃	9-R118	AA		
〃	9-R710	AA		
〃	9-R797	AA		
VRS-CY1JB150J	9-R369	AB		
VRS-CY1JB151J	9-R45	AA		
VRS-CY1JB152J	9-R130	AA		
〃	9-R131	AA		
〃	9-R380	AA		
〃	9-RD04	AA		
〃	9-RD14	AA		
〃	9-RD21	AA		
VRS-CY1JB153J	9-R112	AA		
VRS-CY1JB182J	9-R63	AA		
〃	9-R65	AA		
〃	9-R359	AA		
VRS-CY1JB1R0J	9-R18	AA		
VRS-CY1JB221J	9-R711	AA		
〃	9-R713	AA		
〃	9-R714	AA		
VRS-CY1JB222J	9-R48	AA		
〃	9-R49	AA		
〃	9-R103	AA		
〃	9-R104	AA		
〃	9-R379	AA		
〃	9-R610	AA		
〃	9-R611	AA		
〃	9-R614	AA		
〃	9-R615	AA		
〃	9-R729	AA		
〃	9-RD22	AA		
VRS-CY1JB223J	9-R46	AA		
〃	9-R144	AA		
〃	9-R624	AA		
〃	9-R643	AA		
〃	9-R644	AA		
VRS-CY1JB225J	9-R67	AA		
VRS-CY1JB271J	9-R30	AA		
〃	9-R353	AA		
VRS-CY1JB272J	9-R350	AA		
〃	9-R780	AA		
〃	9-RD23	AA		
VRS-CY1JB330J	9-R349	AA		
〃	9-R399	AA		
VRS-CY1JB331J	9-R16	AA		
〃	9-R346	AA		
VRS-CY1JB332J	9-R44	AA		
〃	9-R105	AA		
〃	9-R106	AA		
〃	9-R355	AA		
〃	9-R606	AA		
〃	9-R607	AA		
〃	9-R614	AA		
〃	9-R615	AA		
VRS-CY1JB391J	9-R612	AA		
〃	9-R613	AA		
VRS-CY1JB392J	9-R64	AA		
〃	9-R119	AA		
〃	9-R120	AA		
〃	9-R388	AA		
〃	9-RD07	AA		
〃	9-RD17	AA		
〃	9-RD24	AA		
VRS-CY1JB393J	9-R692	AA		
〃	9-R693	AA		
VRS-CY1JB471J	9-R344	AA		
VRS-CY1JB472J	9-R28	AA		
〃	9-R55	AA		
〃	9-R58	AA		
〃	9-R60	AA		
〃	9-R109	AA		
〃	9-R110	AA		
〃	9-R148	AA		
〃	9-R345	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	9-R360	AA		
〃	9-R779	AA		
〃	9-R781	AA		
〃	9-R787	AA		
VRS-CY1JB473J	9-R107	AA		
〃	9-R108	AA		
〃	9-R140	AA		
〃	9-R143	AA		
〃	9-R377	AA		
〃	9-R395	AA		
〃	9-R796	AA		
〃	9-R946	AA		
VRS-CY1JB474J	9-R357	AA		
VRS-CY1JB4R7J	9-R145	AA		
VRS-CY1JB562J	9-R128	AA		
〃	9-R129	AA		
〃	9-R351	AA		
〃	9-R383	AA		
〃	9-R385	AA		
〃	9-R756	AA		
〃	9-R757	AA		
〃	9-R758	AA		
〃	9-R915	AA		
〃	9-R916	AA		
〃	9-RD08	AA		
〃	9-RD25	AA		
VRS-CY1JB563J	9-R901	AA		
〃	9-R902	AA		
〃	9-R907	AA		
〃	9-R908	AA		
〃	9-R937	AA		
〃	9-RT24	AA		
〃	9-RT26	AA		
VRS-CY1JB681J	9-R31	AA		
〃	9-R348	AA		
〃	9-R608	AA		
〃	9-R609	AA		
〃	9-R728	AA		
〃	9-RD01	AA		
〃	9-RD11	AA		
〃	9-RD18	AA		
VRS-CY1JB682J	9-R121	AA		
〃	9-R122	AA		
〃	9-R123	AA		
〃	9-R124	AA		
〃	9-R126	AA		
〃	9-R127	AA		
〃	9-R347	AA		
〃	9-R690	AA		
〃	9-R691	AA		
〃	9-RT32	AA		
VRS-CY1JB683J	9-R150	AA		
〃	9-R323	AA		
〃	9-R950	AA		
VRS-CY1JB820J	9-R32	AA		
〃	9-R43	AA		
〃	9-R52	AA		
VRS-CY1JB821J	9-R905	AA		
〃	9-R906	AA		
〃	9-RD02	AA		
〃	9-RD12	AA		
〃	9-RD19	AA		
VRS-CY1JB822J	9-R59	AA		
〃	9-R61	AA		
〃	9-R786	AA		
VS2SC380-Ō/-1	2-Q301	AC		
VSKRA102S//-1	2-Q607	AB		
VSKRA107S//-1	2-Q713	AB		
〃	2-Q715	AB		
VSKRC102S//-1	2-Q703	AB		
VSKRC104S//-1	2-Q4	AC		
〃	2-Q110	AC		
〃	2-Q113	AC		
〃	2-Q114	AC		
〃	2-Q712	AC		
〃	2-Q714	AC		
〃	2-Q719	AC		
〃	2-Q850	AC		
VSKTA1271Y/-1	2-Q2	AC		
〃	2-Q702	AC		
VSKTA1273Y/-1	2-Q701	AE		
VSKTA1274Y/-1	2-Q801	AE		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VSKTA1504GR-1	2-Q109	AB		
〃	2-Q112	AB		
〃	2-Q360	AB		
VSKTA1504Y/-1	2-Q1	AB		
VSKTC2026//-1	2-iC855	AF		
VSKTC3199GR-1	2-Q841	AB		
VSKTC3200GR-1	2-Q101	AC		
〃	2-Q102	AC		
〃	2-Q103	AC		
〃	2-Q104	AC		
VSKTC3203Y/-1	2-Q111	AC		
〃	2-Q906	AC		
VSKTC3875GR-1	2-Q3	AB		
〃	2-Q105	AB		
〃	2-Q106	AB		
〃	2-Q107	AB		
〃	2-Q108	AB		
〃	2-Q601	AB		
〃	2-Q602	AB		
〃	2-Q901	AB		
〃	2-Q902	AB		
〃	2-Q903	AB		
〃	2-Q904	AB		
〃	2-Q905	AB		
〃	2-QT21	AB		
VVKNA11SS55-1	10-FL701	AV		
【 X 】				
XBBSD20P03000	11-703	AA		
XBBSD20P04000	13-606	AA		
XBSSD26P06000	11-701	AA		
XEBSD20P10000	12-803	AA		
XEBSD26P08000	13-607	AA		
XEBSD30P10000	12-804	AA		
〃	13-608	AA		
XEBSD30P12000	13-609	AA		
XEBSN30P10000	14-907	AA		
XEPSN40P16000	14-908	AC		
XESSD30P10000	13-610	AA		
XHBSD30P06000	13-611	AA		
XHBSD40P06000	13-612	AA		
XJBSD30P08000	13-613	AA		
XJBSF30P08000	13-614	AA		
XJSSD30P10000	13-615	AA		
【 9 】				
92LBAG1460C1	15-1	AB		
92LCONE2P5268	10-CNP302	AB		
92LCONE2P53253	10-CNP971	AB		
92LCONE4P5267X	10-CNP902	AB		
92LCONE4P53254	10-CNP5	AC		
92LCONE6P53253	10-CNP2	AC		
〃	10-CNP802	AC		
92LCONE6P53254	10-CNP3A	AC		
92LCONE7P53254	10-CNP3	AB		
92LCRSTL1425A	7-X351	AF		
92LCSPR1431C	13-203	AA		
〃	13-202- 4	AA		
92LFANT1535A	15-2	AF		
92LFSHOLD1652T	13-204	AB		
92LHPC1LFASY	11-306	BB		
92LMCUSN1524A	11-305	AD		
92LMMTR1854A	10-M2A	AP		
92LMTR1854BASY	11-M2A	AP		
92LMTR5515CASY	10-M1A	AS		
〃	11-M1A	AS		
92LMTR5529BASY	10-M1	AD		
〃	10-M2	AD		
〃	12-M1	AD		
〃	12-M2	AD		
92LNBAND1318A	13-229	AA		
92LPWB6230CDUS	16-PWB-D	BH		
92LPWB6289MANS	16-PWB-A	-		
92LPWB6289PWRS	16-PWB-B	-		
92LPWB6289TUNS	16-PWB-C	-		
92LPWB6291MANS	16-PWB-A	-		
92LPWB6291PWRS	16-PWB-B	-		
92LPWB6291TUNS	16-PWB-C	-		
92LSWiCHT1663T	10-SW701	AC		
〃	10-SW702	AC		
〃	10-SW703	AC		
〃	10-SW704	AC		
〃	10-SW705	AC		
〃	10-SW708	AC		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
〃	10-SW709	AC		
〃	10-SW710	AC		
〃	10-SW711	AC		
〃	10-SW712	AC		
〃	10-SW713	AC		
〃	10-SW714	AC		
〃	10-SW715	AC		
〃	10-SW716	AC		
〃	10-SW717	AC		
〃	10-SW718	AC		
〃	10-SW719	AC		
〃	10-SW720	AC		
〃	10-SW721	AC		
〃	10-SW722	AC		
〃	10-SW723	AC		
〃	10-SW724	AC		
〃	10-SW725	AC		
〃	10-SW726	AC		
〃	10-SW727	AC		
〃	10-SW728	AC		
92PF514-133	13-212- 6	AL		
92PF522-063	13-212- 4	AZ		

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2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

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Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK ..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN ..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN ..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

-MEMO-

-MEMO-

-MEMO-

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